

Anti-BRG1 Antibody [SN20-03]

ET1611-85



| | |
|----------------------------|---|
| Product Type: | Recombinant Rabbit monoclonal IgG, primary antibodies |
| Species reactivity: | Human, Mouse, Rat, Pig |
| Applications: | WB, IF-Cell, IF-Tissue, IHC-P, IHC-Fr, FC |
| Molecular Wt: | Predicted band size: 185 kDa |
| Clone number: | SN20-03 |

Description: The SWI-SNF complex is involved in the activation of transcription via the remodeling of nucleosome structure in an ATP-dependent manner. Brm (also designated SNF2 α) and Brg-1 (also designated SNF2 β) are the ATPase subunits of the mammalian SWI-SNF complex. Brm, Brg-1, Ini1 (integrator interactor 1, also designated SNF5), BAF155 (also designated SRG3) and BAF170 are thought to comprise the functional core of the SWI-SNF complex. Addition of Ini1, BAF155 and BAF170 to Brg-1 appears to increase remodeling activity. Other complex subunits are thought to play regulatory roles. hSNF2L and hSNF2H both appear to be homologs of Drosophila ISWI, a Brm related ATPase that is present in chromatin remodeling complexes other than SWI/SNF, including the NURF (nucleosome remodeling factor).

Immunogen: Synthetic peptide within human BRG1 aa 240-280.

Positive control: HeLa, HeLa cell lysate, K-562 cell lysate, NIH/3T3 cell lysate, RAW264.7 cell lysate, C6 cell lysate, PC-12 cell lysate, HepG2, NIH/3T3, human tonsil tissue, human kidney tissue, human breast carcinoma tissue, mouse testis tissue, mouse colon tissue, mouse kidney tissue, mouse epididymis tissue, rat colon tissue, rat kidney tissue, rat brain tissue, mouse hippocampus tissue, mouse cerebral cortex tissue.

Subcellular location: Nucleus.

Database links: SwissProt: P51532 Human | Q3TKT4 Mouse | Q8K1P7 Rat

Recommended Dilutions:

| | |
|------------------|-------------------|
| WB | 1:20,000-1:50,000 |
| IF-Cell | 1:200-1:1,000 |
| IHC-P | 1:1,000-1:5,000 |
| IF-Tissue | 1:200-1:500 |
| IHC-Fr | 1:1,000 |
| FC | 1:1,000 |

Storage Buffer: 1*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

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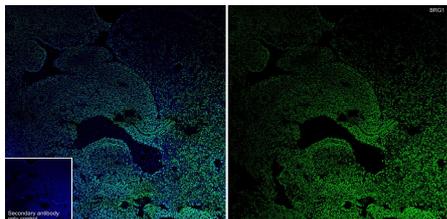
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Images

**Fig1:** Application: IHC-Fr

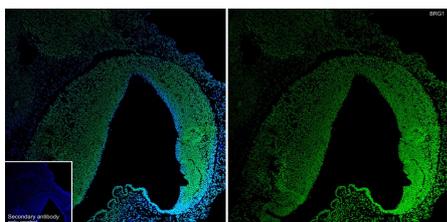
Species: Mouse

Site: E14.5 embryo

Sample: Frozen section

Antibody concentration: 1:1,000

Antigen retrieval: Not required

**Fig2:** Application: IHC-Fr

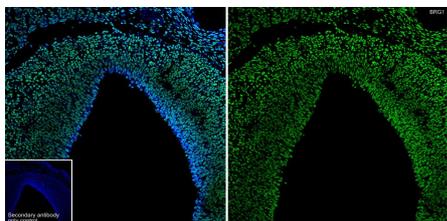
Species: Mouse

Site: E14.5 embryo

Sample: Frozen section

Antibody concentration: 1:1,000

Antigen retrieval: Not required

**Fig3:** Application: IHC-Fr

Species: Mouse

Site: E14.5 embryo

Sample: Frozen section

Antibody concentration: 1:1,000

Antigen retrieval: The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for about 2 minutes in microwave oven.

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Fig4: Application: IHC-Fr

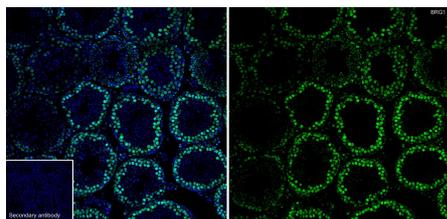
Species: Mouse

Site: Testis

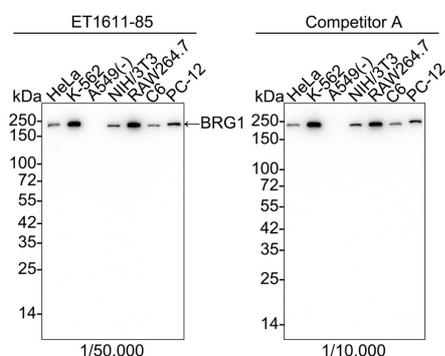
Sample: Frozen section

Antibody concentration: 1:1,000

Antigen retrieval: The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for about 2 minutes in microwave oven.

**Fig5:** Western blot analysis of BRG1 on different lysates with Rabbit anti-BRG1 antibody (ET1611-85) at 1/50,000 dilution and competitor's antibody at 1/10,000 dilution.

Lane 1: HeLa cell lysate
 Lane 2: K-562 cell lysate
 Lane 3: A549 cell lysate (negative)
 Lane 4: NIH/3T3 cell lysate
 Lane 5: RAW264.7 cell lysate
 Lane 6: C6 cell lysate
 Lane 7: PC-12 cell lysate



Lysates/proteins at 15 µg/Lane.

Predicted band size: 185 kDa

Observed band size: 200 kDa

Exposure time: 1 minute; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1611-85) at 1/50,000 dilution and competitor's antibody at 1/10,000 dilution were used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

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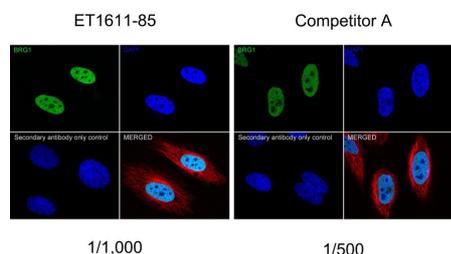


Fig6: Immunocytochemistry analysis of HeLa cells labeling BRG1 with Rabbit anti-BRG1 antibody (ET1611-85) at 1/1,000 dilution and competitor's antibody at 1/500 dilution.

Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-BRG1 antibody (ET1611-85) at 1/1,000 dilution and competitor's antibody at 1/500 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

Fig7: Western blot analysis of BRG1 on different lysates with Rabbit anti-BRG1 antibody (ET1611-85) at 1/2,000 dilution.

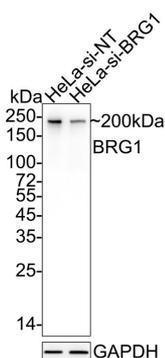
Lane 1: HeLa-si NT cell lysate
Lane 2: HeLa-si BRG1 cell lysate

Lysates/proteins at 15 µg/Lane.

Predicted band size: 185 kDa
Observed band size: 200 kDa

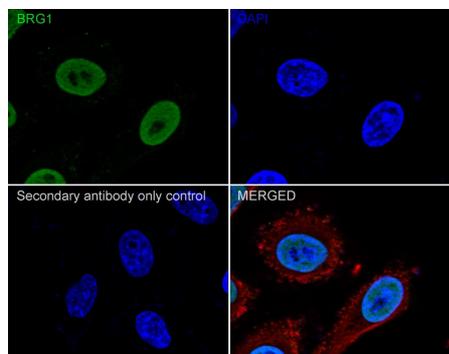
Exposure time: 20 seconds; ECL: K1801;

4-20% SDS-PAGE gel.



Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (ET1611-85) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

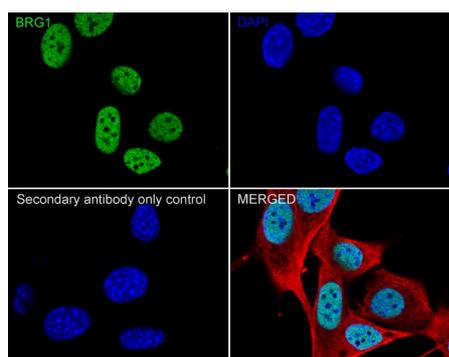
Fig8: Immunocytochemistry analysis of HepG2 cells labeling BRG1 with Rabbit anti-BRG1 antibody (ET1611-85) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-BRG1 antibody (ET1611-85) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

Fig9: Immunocytochemistry analysis of NIH/3T3 cells labeling BRG1 with Rabbit anti-BRG1 antibody (ET1611-85) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 20 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-BRG1 antibody (ET1611-85) at 1/100 dilution in 1% BSA in PBST overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (M1305-2, red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

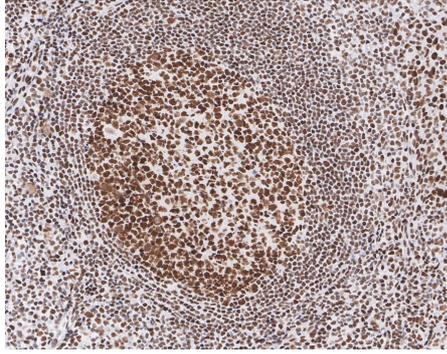


Fig10: Immunohistochemical analysis of paraffin-embedded human tonsil tissue with Rabbit anti-BRG1 antibody (ET1611-85) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1611-85) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

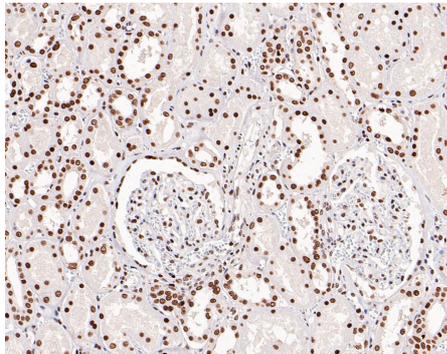


Fig11: Immunohistochemical analysis of paraffin-embedded human kidney tissue with Rabbit anti-BRG1 antibody (ET1611-85) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1611-85) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

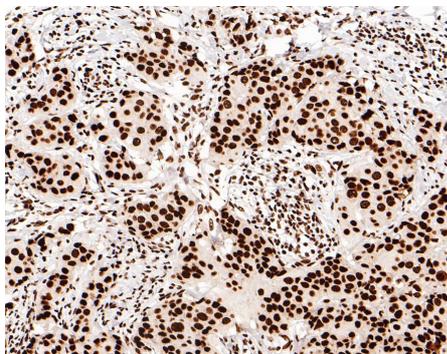


Fig12: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue with Rabbit anti-BRG1 antibody (ET1611-85) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1611-85) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

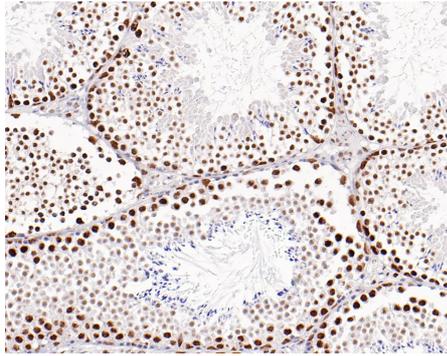


Fig13: Immunohistochemical analysis of paraffin-embedded mouse testis tissue with Rabbit anti-BRG1 antibody (ET1611-85) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1611-85) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

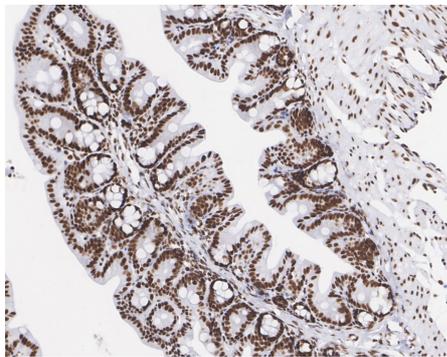


Fig14: Immunohistochemical analysis of paraffin-embedded mouse colon tissue with Rabbit anti-BRG1 antibody (ET1611-85) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1611-85) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

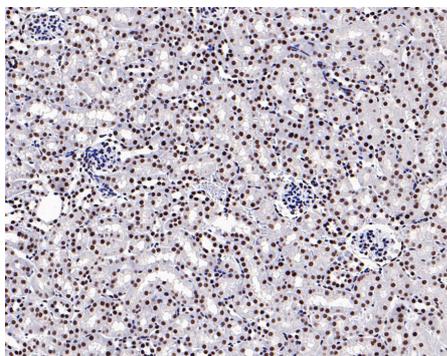


Fig15: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue with Rabbit anti-BRG1 antibody (ET1611-85) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1611-85) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

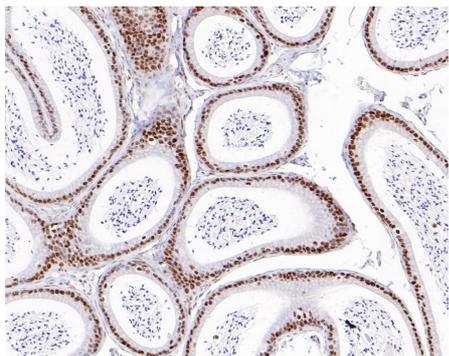


Fig16: Immunohistochemical analysis of paraffin-embedded mouse epididymis tissue with Rabbit anti-BRG1 antibody (ET1611-85) at 1/500 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1611-85) at 1/500 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

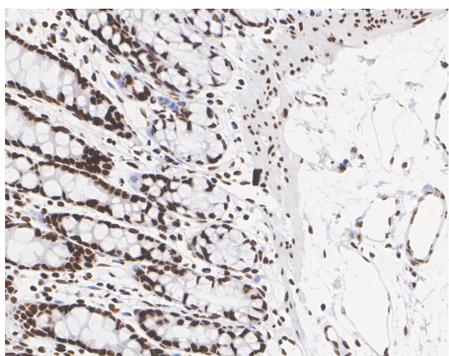


Fig17: Immunohistochemical analysis of paraffin-embedded rat colon tissue with Rabbit anti-BRG1 antibody (ET1611-85) at 1/5,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1611-85) at 1/5,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

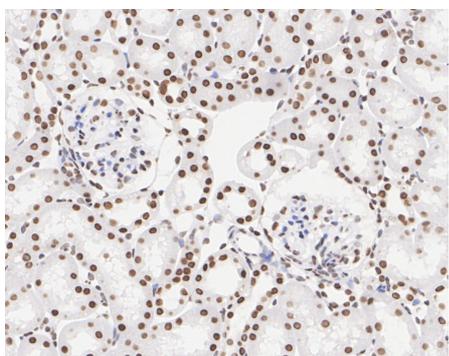
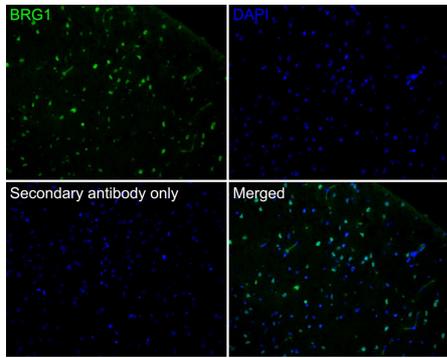


Fig18: Immunohistochemical analysis of paraffin-embedded rat kidney tissue with Rabbit anti-BRG1 antibody (ET1611-85) at 1/5,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (ET1611-85) at 1/5,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

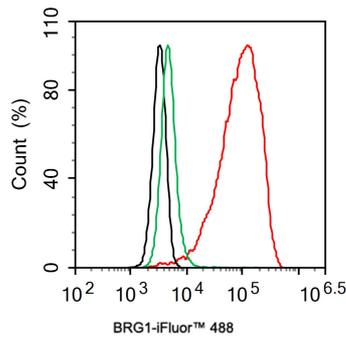
**Fig19:** Application: IF-tissue

Species: Rat

Site: Cerebral cortex

Sample: Paraffin-embedded section

Antibody concentration: 1:200

**Fig20:** Flow cytometric analysis of HeLa cells labeling BRG1.

Cells were fixed and permeabilized. Then stained with the primary antibody (ET1611-85, 1 μ g/mL) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4 $^{\circ}$ C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4 $^{\circ}$ C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Madsen MS et al. Peroxisome proliferator-activated receptor and C/EBP α synergistically activate key metabolic adipocyte genes by assisted loading. *Mol Cell Biol* 34:939-54 (2014).
2. Ramos P et al. Small cell carcinoma of the ovary, hypercalcemic type, displays frequent inactivating germline and somatic mutations in SMARCA4. *Nat Genet* 46:427-9 (2014).

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