

Anti-BRG1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

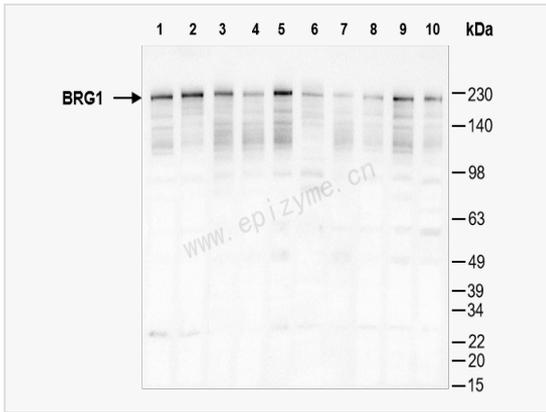
Catalog # R014881

Product Information

| | |
|-------------|---|
| Application | WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA |
| Reactivity | Human, Mouse, Rat |
| Dilution | WB 1:2,000~1:10,000; IHC-P 1:200~1:1,000; IF 1:200~1:1,000 |
| Host | Rabbit |
| Clonality | Monoclonal |
| Clone No. | 39F60F28 |
| Isotype | IgG |
| Label | Unconjugated |
| Immunogen | A synthesized peptide derived from human BRG1 |
| Format | Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3. |
| Storage | Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage. |
| Precautions | Anti-BRG1 Rabbit mAb [39F60F28] is for research use only and not for use in diagnostic or therapeutic procedures. |

Protein Information

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|---------------|---|
| Synonyms | ATP dependent helicase SMARCA4, ATP-dependent helicase SMARCA4, BAF 190, BAF190, BAF190A, Brahma protein like 1, BRG1, BRG1 associated factor 190A, BRG1 protein, BRG1-associated factor 190A, BRM/SWI2 related gene 1, Global transcription activator homologous sequence, global transcription activator snf2l4, Homeotic gene regulator, hSNF2b, Mitotic growth and transcription activator, MRD16, Nuclear protein GRB1, Protein brahma homolog 1, Protein BRG-1, Protein BRG1, RTPS2, SMARC A4, SMARCA4, SMCA4_HUMAN, SNF2, SNF2 beta, SNF2 like 4, SNF2-beta, SNF2B, SNF2L4, SNF2LB, Sucrose nonfermenting like 4, SWI/SNF related matrix associated actin dependent regulator of chromatin subfamily A member 4, SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4, SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 4, SWI2, Transcription activator BRG1. |
| Calculated MW | Calculated MW: 185 kDa; Observed MW: 220 kDa |
| Uniprot ID | P51532 |
| Gene ID | 6597 |
| Background | The protein encoded by this gene is a member of the SWI/SNF family of proteins and is similar to the brahma protein of Drosophila. Members of this family have helicase and ATPase activities and are thought to regulate transcription of certain genes by altering the chromatin structure around those genes. The encoded protein is part of the large ATP-dependent chromatin remodeling complex SNF/SWI, which is required for transcriptional activation of genes normally repressed by chromatin. In addition, this protein can bind BRCA1, as well as regulate the expression of the tumorigenic protein CD44. Mutations in this gene cause rhabdoid tumor predisposition syndrome type 2. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012] |



Western Blot - Anti-BRG1 Rabbit mAb [39F60F28]

All lanes: R014881 at 1:3,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates

Lane 3: U2OS (Human osteosarcoma epithelial cell) whole cell lysates

Lane 4: T24 (Human bladder cancer epithelial cell) whole cell lysates

Lane 5: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates

Lane 6: 293T (Human embryonic kidney cell) whole cell lysates

Lane 7: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates

Lane 8: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates

Lane 9: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates

Lane 10: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates

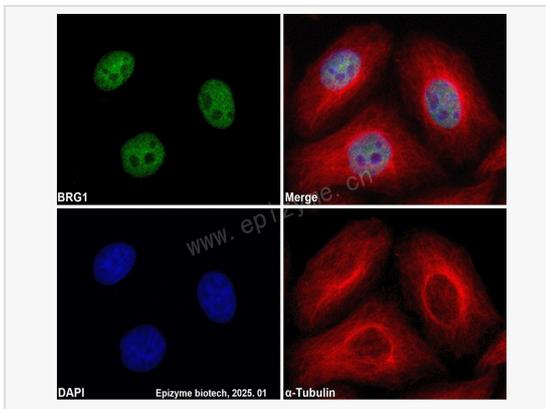
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 185 kDa

Observed band size: 220 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-BRG1 Rabbit mAb [39F60F28]

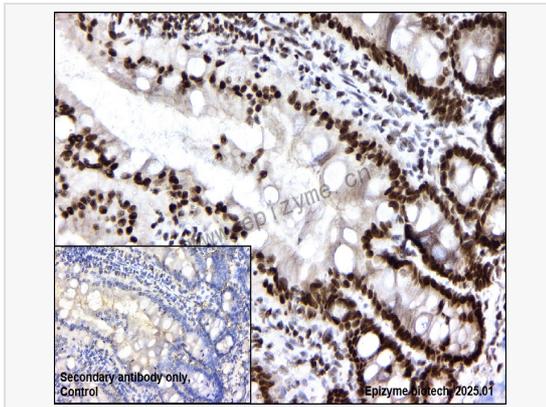
Sample: HeLa cells

The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R014881 at 1:100 dilution and α -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution

Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)

Nuclei were stained with DAPI (shown in blue).



Immunohistochemistry - Anti-BRG1 Rabbit mAb [39F60F28]

Sample: Paraformaldehyde-fixed, paraffin embedded rat colon tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

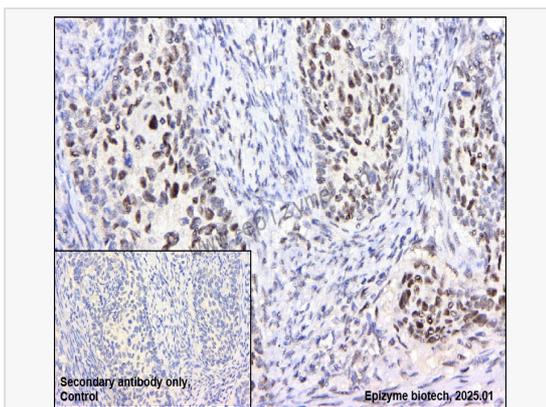
Primary antibody: R014881 at 1:600 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-BRG1 Rabbit mAb [39F60F28]

Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

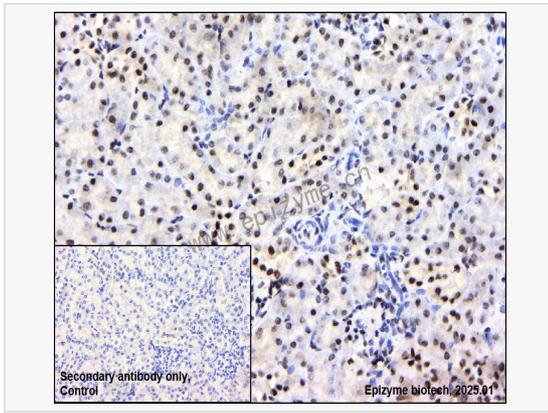
Primary antibody: R014881 at 1:600 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-BRG1 Rabbit mAb [39F60F28]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse kidney tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R014881 at 1:600 dilution

Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

DAB was used as the chromogen.

Counter stained with hematoxylin.

Positive/negative staining were presented.

Only the secondary antibody was used as the negative control.