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SMARCA2 / BRM Rabbit mAb

Catalog No.: A23291 Recombinant 1 Publications

Basic Information

Observed MW
220kDa

Calculated MW
181kDa

Category
Primary antibody

Applications
WB,IHC-P,IF/ICC,IP,ChIP,ELISA

Cross-Reactivity
Human

CloneNo number
ARC59944

Background

The protein encoded by this gene is a member of the SWI/SNF family of proteins and is highly 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene, which contains a trinucleotide repeat (CAG) length polymorphism.

Recommended Dilutions

WB	1:500 - 1:2000
IHC-P	1:200 - 1:800
IF/ICC	1:50 - 1:200
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ChIP	5μg antibody for 10μg-20μg of Chromatin
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements..

Immunogen Information

Gene ID
6595

Swiss Prot
P51531

Immunogen
A synthetic peptide corresponding to a sequence within amino acids 201-300 of human SMARCA2 (NP_003061.3).

Synonyms
BIS; BRM; SNF2; SWI2; hBRM; NCBRS; Sth1p; BAF190; SNF2L2; SNF2LA; hSNF2a; SMARCA2 / BRM

Product Information

Source
Rabbit

Isotype
IgG

Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.05% proclin300,0.05% BSA,50% glycerol,pH7.3.

Contact

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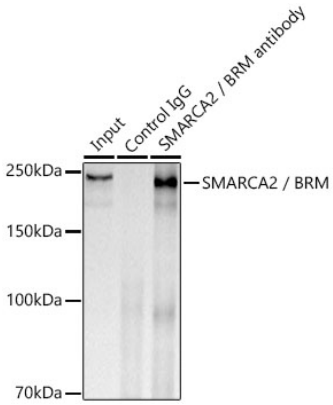
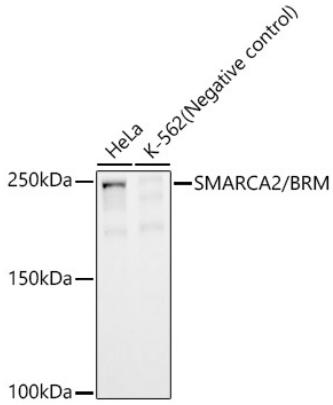
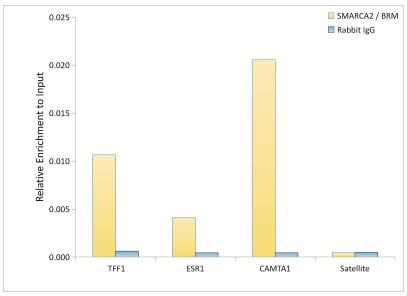
Validation Data



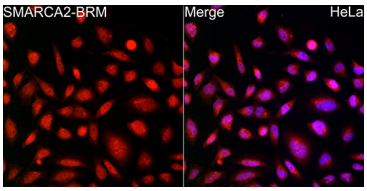
Immunoprecipitation analysis of 300 µg extracts of Hela cells using 3 µg SMARCA2 / BRM Rabbit mAb (A23291). Western blot was performed from the immunoprecipitate using SMARCA2 / BRM Rabbit mAb (A23291) at a dilition of 1:5000.

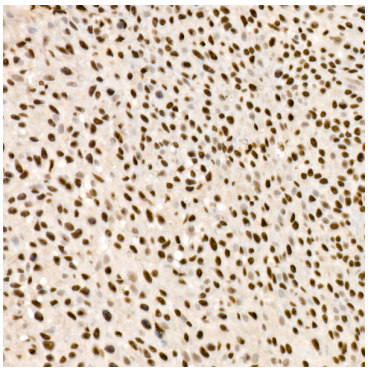


Western blot analysis of various lysates, using SMARCA2 / BRM Rabbit mAb (A23291) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



Chromatin immunoprecipitation was performed with 20 µg of cross-linked chromatin from MCF7 cells treated with β-estradiol (10 nM, 45 min), using 5 µg of SMARCA2 / BRM Rabbit mAb(A23291) and Rabbit IgG isotype control(AC042). The enrichment of immunoprecipitated DNA at different genomic loci was examined by quantitative PCR. The histogram compares the ratio of the immunoprecipitated DNA to the input at given loci.





Validation Data

Immunofluorescence analysis of HeLa cells using SMARCA2 / BRM Rabbit mAb (A23291) at dilution of 1:100 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.

Immunohistochemistry analysis of paraffin-embedded Human cervix cancer tissue using SMARCA2 / BRM Rabbit mAb (A23291) at dilution of 1:200 (40x lens). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IHC staining.