BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Transcription activator BRG1 SMARCA4 Antibody

Catalog Number: A00223

About SMARCA4

The SWI/SNF related matrix associated actin dependent regulator of chromatin subfamily a member 4 (SMARCA4) protein, also known as BRG1, is a member of the SWI/SNF family of proteins and is similar to the brahma protein of Drosophila (1). 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 (2). 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 (3). In addition, this protein can bind BRCA1, as well as regulate the expression of the tumorigenic protein CD44 (4,5).

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Overview

Product Name	Anti-Transcription activator BRG1 SMARCA4 Antibody
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Transcription activator BRG1 SMARCA4 Antibody (Catalog # A00223). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	SMARCA4 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	SMARCA4 antibody can be stored at 4°C, stable for up to one year.
Host	Rabbit
Uniprot ID	P51532

Technical Details

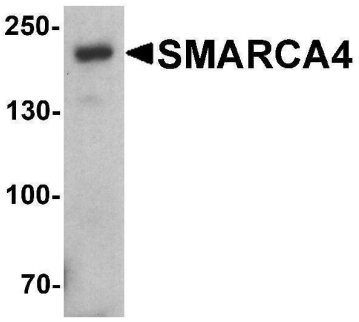
Immunogen	SMARCA4 antibody was raised against a 19 amino acid peptide near the carboxy terminus of human SMARCA4. The immunogen is located within amino acids 1420 - 1470 of SMARCA4.
Predicted Reactive Species	Bovine
Cross Reactivity	SMARCA4 antibody is human, mouse and rat reactive. Multiple isoforms of SMARCA4 are known to exist.

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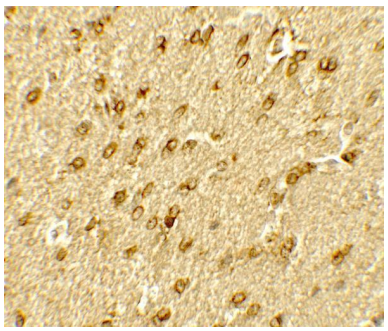
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	SMARCA4 antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	SMARCA4 antibody can be used for detection of SMARCA4 by Western blot at 1 - 2 ug/ml. Antibody can also be used for Immunohistochemistry at 2 ug/mL. For Immunoflorescence start at 20 ug/mL. Antibody validated: Western Blot in human samples; Immunohistochemistry in mouse and rat samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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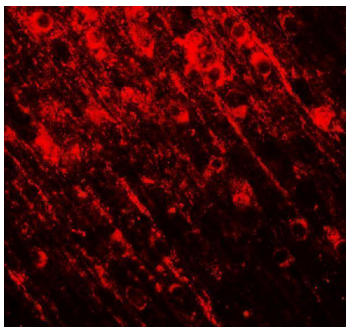
Anti-Transcription activator BRG1 SMARCA4 Antibody (A00223) Images



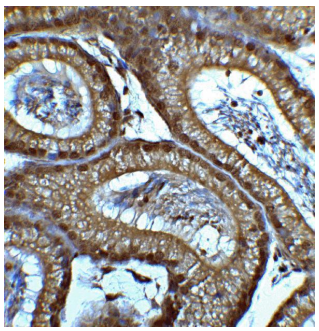
Western blot analysis of SMARCA4 in SK-N-SH cell lysate with SMARCA4 antibody at 1 ug/ml.



Immunohistochemistry of SMARCA4 in rat brain tissue with SMARCA4 antibody at 5 ug/mL.



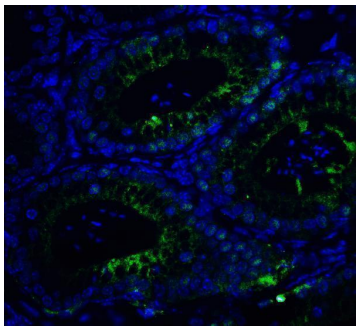
Immunohistochemistry of SMARCA4 in rat brain tissue with SMARCA4 antibody at 5 ug/mL.



Immunohistochemistry of SMARCA4 in mouse testis tissue with SMARCA4 antibody at 2 ug/ml.

Immunofluorescence of SMARCA4 in mouse testis tissue with SMARCA4 antibody at 20 ug/ml.Green: SMARCA4 Antibody (A00223) Blue: DAPI staining

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