SMARCA2/BRM Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	SMARCA2/BRM, Polyclonal Antibody
Full Product Name	Anti-SMARCA2/BRM Antibody
Product Gene Name	anti-SMARCA2/BRM antibody
Product Synonym Names	Probable global transcription activator SNF2L2; SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2; Probable global transcription activator SNF2L2; ATP-dependent helicase SMARCA2; BRG1-associated factor 190B; BAF190B; Protein brahma homolog; hBRM; SNF2-alpha; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 2; SMARCA2; BAF190B; BRM; SNF2A; SNF2L2
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Lyophilized
Purity/Purification	Immunogen Affinity Purified
Specificity	No cross reactivity with other proteins.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.
OMIM	X72889 mRNA
3D Structure	ModBase 3D Structure for P51531
Immunogen	E Coli-derived human SMARCA2/BRM recombinant protein (Position: Q181-N624).
Contents	Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Relevant Detection Systems	We recommend Enhanced Chemiluminescent Kit with anti-Rabbit IgG (MBS176460) for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (MBS176453) for IHC(P), IHC(F) and ICC.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500mug/ml.
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for anti-SMARCA2/BRM antibody	Western Blot (WB), Immunohistochemistry (IHC) Formalin/Paraffin, Immunocytochemistry (ICC), Flow Cytometry (FC/FACS), Direct ELISA (EIA)
Application Notes for anti-SMARCA2/BRM antibody	WB: 0.25-0.5ug/ml IHC-P: 0.5-1ug/ml IHC-F: 0.5-1ug/ml ICC: 0.5-1ug/ml FC/FACS: 1-3mug/1x106 Direct ELISA: 0.1-0.5ug/ml

Related Product Information for anti-SMARCA2/BRM antibody	Description: Rabbit IgG polyclonal antibody for SMARCA2/BRM detection. Tested with WB, IHC-P, IHC-F, ICC, FCM, Direct ELISA in Human; Mouse; Rat. Background: Probable global transcription activator SNF2L2 is a protein that in humans is encoded by the SMARCA2 gene. It is mapped to 9p24.3. 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.
Product References and Citations for anti-SMARCA2/BRM antibody	1. de la Serna, I. L., Carlson, K. A., Imbalzano, A. N. Mammalian SWI/SNF complexes promote MyoD-mediated muscle differentiation. Nature Genet. 27: 187-190, 2001. 2. Hakimi, M.-A., Bochar, D. A., Schmiesing, J. A., Dong, Y., Barak, O. G., Speicher, D. W., Yokomori, K., Shiekhattar, R. A chromatin remodelling complex that loads cohesin onto human chromosomes. Nature 418: 994-998, 2002.
Other Notes	Small volumes of anti-SMARCA2/BRM antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for SMARCA2/BRM purchase	MBS1752476 is an antibody targeting SMARCA2/BRM. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SMARCA2/BRM. It may not necessarily be applicable to this product.

NCBI GI #	574957243
NCBI GeneID	6595
NCBI Accession #	NP_001276325.1
UniProt Primary Accession #	P51531
UniProt Related Accession #	P51531
GenBank Nucleotide #	NP_001276325.1
NCBI Official Full Name	probable global transcription activator SNF2L2 isoform a
NCBI Official Synonym Full Names	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2
NCBI Official Symbol	SMARCA2
NCBI Official Synonym Symbols	BRM; SNF2; SWI2; hBRM; NCBRS; Sth1p; BAF190; SNF2L2; SNF2LA; hSNF2a
UniProt Protein Name	Probable global transcription activator SNF2L2
UniProt Synonym Protein Names	ATP-dependent helicase SMARCA2; BRG1-associated factor 190B; BAF190B; Protein brahma homolog; hBRM; SNF2-alpha; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A member 2
UniProt Gene Name	SMARCA2
UniProt Synonym Gene Names	BAF190B; hBRM
NCBI Protein Information	probable global transcription activator SNF2L2
NCBI Summary for SMARCA2/BRM	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. [provided by RefSeq, Jan 2014]

UniProt Comments for SMARCA2/BRM	SMARCA2: an enzyme with ATP-dependent DNA helicase activity. A transcriptional coactivator that cooperates with nuclear hormone receptors to potentiate transcriptional activation. Binds TOPBP1. Belongs to the SNF2/RAD54 helicase family. Two alternatively spliced human isoforms have been described. Protein type: EC 3.6.1.-; EC 3.6.4.-; Helicase; Nuclear receptor co-regulator; Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 9p24.3 Cellular Component: intermediate filament cytoskeleton; intracellular membrane-bound organelle; nBAF complex; npBAF complex; nuclear chromatin; nucleoplasm; nucleus; SWI/SNF complex Molecular Function: ATP binding; chromatin binding; DNA-dependent ATPase activity; helicase activity; histone binding; protein binding; transcription coactivator activity; transcription regulatory region DNA binding Biological Process: chromatin remodeling; negative regulation of cell growth; negative regulation of cell proliferation; negative regulation of transcription from RNA polymerase II promoter; negative regulation of transcription, DNA-dependent; nervous system development; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription, DNA-templated; regulation of transcription from RNA polymerase II promoter; regulation of transcription, DNA-templated; spermatid development; transcription from RNA polymerase II promoter Disease: Nicolaides-baraitser Syndrome
Research Articles on SMARCA2/BRM	**1.** In both mouse keratinocytes and HaCaT cells, Brm deficiency led to an increased cell population growth following ultraviolet radiation (UVR) exposure compared to cells with normal levels of Brm. The loss of Brm in keratinocytes exposed to UVR enables them to resume proliferation while harboring DNA photolesions, leading to an increased fixation of mutations and, consequently, increased carcinogenesis.
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