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Goat anti-BRM Antibody

Peptide-affinity purified goat antibody
Catalog # AF4522a

Product Information

Application	IF, Pep-ELISA
Primary Accession	P51531
Other Accession	NP_003061.3, NP_620614.2
Reactivity	Human, Rat
Host	Goat
Clonality	Polyclonal
Clone Names	SMARCA2
Calculated MW	181279

Additional Information

Gene ID	6595
Other Names	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 2 ; BAF190 ; BRM ; FLJ36757 ; MGC74511 ; SNF2 ; SNF2L2 ; SNF2LA ; SWI2 ; Sth1p ; hBRM ; hSNF2a; SNF2-alpha; SNF2-like 2 ; SNF2/SWI2-like protein 2 ; SWI/SNF-re
Dilution	IF~~1:50~200 Pep-ELISA~~N/A
Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Immunogen	This antibody is expected to recognise both reported isoforms (NP_003061.3; NP_620614.2)
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Goat anti-BRM Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SMARCA2 (HGNC:11098)
Function	ATPase involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Component of SWI/SNF chromatin remodeling complexes that carry out key enzymatic activities, changing chromatin structure by altering DNA-histone

contacts within a nucleosome in an ATP-dependent manner. Binds DNA non-specifically (PubMed:15075294, PubMed:22952240, PubMed:26601204). Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a postmitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to postmitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron- specific complexes (nBAF). The npBAF complex is essential for the self- renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth (By similarity).

Cellular Location Nucleus. Note=Localizes to sites of DNA damage