BAF170 Antibody – Polyclonal

PRODUCT OVERVIEW

Product Name	BAF170, Polyclonal Antibody
Full Product Name	BAF170 Polyclonal Antibody
Product Gene Name	anti-BAF170 antibody
Clonality	Polyclonal
Molecular Weight	126,924 Da
OMIM	601734
3D Structure	ModBase 3D Structure for Q8TAQ2
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-BAF170 antibody	MBS8521418 is an antibody targeting BAF170. Also known as BAF170 Polyclonal Antibody.
Other Notes	Small volumes of anti-BAF170 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BAF170. It may not necessarily be applicable to this product.

NCBI GI #	194363725
NCBI GeneID	6601
NCBI Accession #	NP_001123892.1
UniProt Primary Accession #	Q8TAQ2
UniProt Secondary Accession #	Q59GV3; Q92923; Q96E12; Q96GY4; F8VTJ5
UniProt Related Accession #	Q8TAQ2
GenBank Nucleotide #	NM_001130420.2
NCBI Official Full Name	SWI/SNF complex subunit SMARCC2 isoform c
NCBI Official Synonym Full Names	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfamily c member 2
NCBI Official Symbol	SMARCC2
NCBI Official Synonym Symbols	Rsc8; BAF170; CRACC2
UniProt Protein Name	SWI/SNF complex subunit SMARCC2
UniProt Synonym Protein Names	BRG1-associated factor 170; BAF170; SWI/SNF complex 170 kDa subunit; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily C member 2
Protein Family	SWI/SNF complex
UniProt Gene Name	SMARCC2
UniProt Synonym Gene Names	BAF170; BAF170
NCBI Protein Information	SWI/SNF complex subunit SMARCC2

NCBI Summary for BAF170	The protein encoded by this gene is a member of the SWI/SNF family of proteins, whose members display helicase and ATPase activities and which 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 and contains a predicted leucine zipper motif typical of many transcription factors. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for BAF170	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 (PubMed:11018012). Can stimulate the ATPase activity of the catalytic subunit of these complexes (PubMed:10078207). May be required for CoREST dependent repression of neuronal specific gene promoters in non-neuronal cells (PubMed:12192000). 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 (). Critical regulator of myeloid differentiation, controlling granulocytopoiesis and the expression of genes involved in neutrophil granule formation ().
Research Articles on BAF170	**1.** our data showed that Swi3 strongly affects haem/oxygen-dependent activation of respiration gene promoters whereas Swi2 affects only the basal, haem-independent activities of these promoters. using computational analysis and RNAi knockdown, we showed that the mammalian Swi3 BAF155 and BAF170 regulate respiration in HeLa cells.
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