SMARCD3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	SMARCD3, Monoclonal Antibody
Full Product Name	SMARCD3 (SWI/SNF Related, Matrix Associated, Actin Dependent Regulator of chromatin, Subfamily d, Member 3, BAF60C, CRACD3, MGC111010, Rsc6p) (MaxLight 405)
Product Gene Name	anti-SMARCD3 antibody
Product Synonym Names	SWI/SNF Related; Matrix Associated; Actin Dependent Regulator of chromatin; Subfamily d; Member 3; BAF60C; CRACD3; MGC111010; Rsc6p
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	5F12
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified
Specificity	Recognizes SMARCD3.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	53,687 Da
OMIM	601737
3D Structure	ModBase 3D Structure for Q6STE5
Immunogen	SMARCD3 (NP_001003801, 385aa-483aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	ISALDSKIHETIESINQLKIQRDFMLSFSRDPKGYVQDLLRSQSRDLKVMTDVAGNPEEERRAEFYHQPWSQEAVSRYFYCKIQQRRQELEQSLVVRNT
Conjugate	MaxLight405
Product Categories/Family for anti-SMARCD3 antibody	Antibodies; Matrix Metalloproteinases
Applications Tested/Suitable for anti-SMARCD3 antibody	Western Blot (WB)
Application Notes for anti-SMARCD3 antibody	Applications are based on unconjugated antibody.

Related Product Information for anti-SMARCD3 antibody	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 has sequence similarity to the yeast Swp73 protein. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined. [provided by RefSeq]
Other Notes	Small volumes of anti-SMARCD3 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 SMARCD3 purchase	MBS6197953 is an antibody targeting SMARCD3. Also known as SMARCD3 (SWI/SNF Related, Matrix Associated, Actin Dependent Regulator of chromatin, Subfamily d, Member 3, BAF60C, CRACD3, MGC111010, Rsc6p) (MaxLight 405). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SMARCD3. It may not necessarily be applicable to this product.

NCBI GI #	51477702
NCBI GeneID	6604
NCBI Accession #	NP_001003801
UniProt Primary Accession #	Q6STE5
UniProt Secondary Accession #	Q2YD86; Q75MJ2; Q75MR8; Q92926; Q9BUH1; D3DX10
UniProt Related Accession #	Q6STE5
GenBank Nucleotide #	NM_001003801
NCBI Official Full Name	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 3 isoform 2
NCBI Official Synonym Full Names	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3
NCBI Official Symbol	SMARCD3
NCBI Official Synonym Symbols	Rsc6p; BAF60C; CRACD3
UniProt Protein Name	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 3
UniProt Synonym Protein Names	60 kDa BRG-1/Brm-associated factor subunit C; BRG1-associated factor 60C; BAF60C
Protein Family	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily
UniProt Gene Name	SMARCD3
UniProt Synonym Gene Names	BAF60C; BAF60C
UniProt Entry Name	SMRD3_HUMAN
NCBI Protein Information	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 3; 60 kDa BRG-1/Brm-associated factor subunit C; BRG1-associated factor 60C; SWI/SNF complex 60 kDa subunit C; SWI/SNF related, matrix associated, actin dependent

UniProt Comments for SMARCD3	SMARCD3: Plays a role in ATP dependent nucleosome remodeling by SMARCA4 containing complexes. Stimulates nuclear receptor mediated transcription. 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 post- mitotic 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 post-mitotic 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. Belongs to the SMARCD family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription, coactivator/corepressor; Nuclear receptor co-regulator Chromosomal Location of Human Ortholog: 7q35-q36 Cellular Component: nucleoplasm; SWI/SNF complex; cytoplasm; nuclear chromatin; nucleus Molecular Function: ligand-dependent nuclear receptor binding; protein binding; ligand-dependent nuclear receptor transcription coactivator activity; transcription coactivator activity; transcription factor binding; receptor binding; nuclear hormone receptor binding Biological Process: regulation of transcription from RNA polymerase II promoter; chromatin remodeling; positive regulation of neuroblast proliferation; muscle cell differentiation; nucleosome disassembly; transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; regulation of protein binding; cellular lipid metabolic process
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