SMARCD2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	SMARCD2, Monoclonal Antibody
Full Product Name	SMARCD2 (SWI/SNF Related, Matrix Associated, Actin Dependent Regulator of chromatin, Subfamily d, Member 2, BAF60B, CRACD2, PRO2451, Rsc6p) (MaxLight 405)
Product Gene Name	anti-SMARCD2 antibody
Product Synonym Names	SWI/SNF Related; Matrix Associated; Actin Dependent Regulator of chromatin; Subfamily d; Member 2; BAF60B; CRACD2; PRO2451; Rsc6p
Clonality	Monoclonal
Isotype	IgG2a,k
Clone Number	2B2
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified
Specificity	Recognizes SMARCD2.
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	54kDa
OMIM	601736
3D Structure	ModBase 3D Structure for Q92925
Immunogen	SMARCD2 (NP_003068, 398aa-474aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	RDFMLSFSTDPQDFIQEWLRSQRRDLKIITDVIGNPEEERRAAFYHQPWAQEAVGRHIFAKVQQRRQELEQVLGIRL
Conjugate	MaxLight405
Product Categories/Family for anti-SMARCD2 antibody	Antibodies; Matrix Metalloproteinases
Applications Tested/Suitable for anti-SMARCD2 antibody	FLISA, Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-SMARCD2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-SMARCD2 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. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]
Other Notes	Small volumes of anti-SMARCD2 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 SMARCD2 purchase	MBS6197950 is an antibody targeting SMARCD2. Also known as SMARCD2 (SWI/SNF Related, Matrix Associated, Actin Dependent Regulator of chromatin, Subfamily d, Member 2, BAF60B, CRACD2, PRO2451, Rsc6p) (MaxLight 405). Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SMARCD2. It may not necessarily be applicable to this product.

NCBI GI #	148536862
NCBI GeneID	6603
NCBI Accession #	NP_003068
UniProt Primary Accession #	Q92925
UniProt Related Accession #	Q92925
GenBank Nucleotide #	NM_003077
NCBI Official Synonym Full Names	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 2
NCBI Official Symbol	SMARCD2
NCBI Official Synonym Symbols	SGD2; Rsc6p; BAF60B; CRACD2; PRO2451
UniProt Protein Name	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 2
UniProt Synonym Protein Names	60 kDa BRG-1/Brm-associated factor subunit B; BRG1-associated factor 60B; BAF60B
Protein Family	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily
UniProt Gene Name	SMARCD2
UniProt Synonym Gene Names	BAF60B; BAF60B
UniProt Entry Name	SMRD2_HUMAN
NCBI Protein Information	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 2
UniProt Comments for SMARCD2	SMARCD2: Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Belongs to the SMARCD family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription, coactivator/corepressor Chromosomal Location of Human Ortholog: 17q23.3 Cellular Component: SWI/SNF complex; protein complex; nuclear chromatin; nucleus Molecular Function: protein binding; nucleosomal DNA binding; transcription coactivator activity Biological Process: regulation of transcription from RNA polymerase II promoter; chromatin remodeling; nucleosome disassembly; transcription, DNA-dependent; ATP-dependent chromatin remodeling
Research Articles on SMARCD2	**1.** Defective expression of SMARCD2 (SWI/SNF-related, matrix-associated, actin-dependent regulator of chromatin, subfamily D, member 2) leads to transcriptional and chromatin changes in acute myeloid leukemia (AML) promyelocytic cells, suggesting SMARCD2 is a key factor controlling myelopoiesis and is a potential tumor suppressor in leukemia.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-antibody/smarcd2/6197950