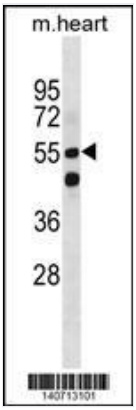
SMARCD1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Smarcd1, Polyclonal Antibody
Full Product Name	Smarcd1, ID (Smarcd1, Baf60a, D15Kz1, SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 1, 60kD BRG-1/Brm-associated factor subunit A, BRG1-associated factor 60A, Protein D15KZ1, SWI/SNF complex 60kD subunit) (FIT
Product Gene Name	anti-Smarcd1 antibody
Product Synonym Names	Smarcd1; Baf60a; D15Kz1; SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 1; 60kD BRG-1/Brm-associated factor subunit A; BRG1-associated factor 60A; Protein D15KZ1; SWI/SNF complex 60kD subunit
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Fluorescein Isothiocyanate (FITC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: FITC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	58,245 Da
3D Structure	ModBase 3D Structure for Q61466
Immunogen	Mouse Smarcd1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 309-335 amino acids from the Central region of mouse Smarcd1.
Conjugate	FITC
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-Smarcd1 antibody	Antibodies; Actin Related Proteins
Applications Tested/Suitable for anti-Smarcd1 antibody	Western Blot (WB), FLISA
Application Notes for anti-Smarcd1 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-Smarcd1 antibody	Smarcd1 is involved in chromatin remodeling. Has a strong influence on the Vitamin D-mediated transcriptional activity from an enhancer Vitamin D receptor element (VDRE). May be a link between mammalian SWI-SNF-like chromatin remodeling complexes and the vitamin D receptor (VDR) heterodimer. Mediates critical interactions between nuclear receptors and the BRG1/SMARCA4 chromatin-remodeling complex for transactivation. Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene (By similarity). 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.
Product References and Citations for anti-Smarcd1 antibody	Guo, G., et al. Dev. Cell 18(4):675-685(2010). Ho, L., et al. Proc. Natl. Acad. Sci. U.S.A. 106(13):5181-5186(2009). Li, S., et al. Cell Metab. 8(2):105-117(2008). Oh, J., et al. J. Biol. Chem. 283(18):11924-11934(2008). Valerius, M.T., et al. Gene Expr. Patterns 8(5):297-306(2008).
Other Notes	Small volumes of anti-Smarcd1 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 Smarcd1 purchase	MBS6348872 is an antibody targeting Smarcd1. Also known as Smarcd1, ID (Smarcd1, Baf60a, D15Kz1, SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 1, 60kD BRG-1/Brm-associated factor subunit A, BRG1-associated factor 60A, Protein D15KZ1, SWI/SNF complex 60kD subunit) (FIT. Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-Smarcd1 antibody
Mouse Smarcd1 Antibody (Center) western blot analysis in mouse heart tissue lysates (35ug/lane).This demonstrates the Mouse Smarcd1 antibody detected the Mouse Smarcd1 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Smarcd1. It may not necessarily be applicable to this product.

NCBI GI #	125347396
NCBI GeneID	83797
NCBI Accession #	NP_114030.2
UniProt Primary Accession #	Q61466
UniProt Secondary Accession #	P70384; Q8R0I7
UniProt Related Accession #	Q61466
GenBank Nucleotide #	NM_031842.2

NCBI Official Full Name	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 1
NCBI Official Synonym Full Names	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1
NCBI Official Symbol	Smarcd1
NCBI Official Synonym Symbols	Baf60a; D15Kz1; AA407987
UniProt Protein Name	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 1
UniProt Synonym Protein Names	60 kDa BRG-1/Brm-associated factor subunit A; BRG1-associated factor 60A; BAF60A; Protein D15KZ1; SWI/SNF complex 60 kDa subunit
Protein Family	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily
UniProt Gene Name	Smarcd1
UniProt Synonym Gene Names	Baf60a; D15Kz1; BAF60A
UniProt Entry Name	SMRD1_MOUSE
NCBI Protein Information	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily D member 1; BRG1-associated factor 60A; SWI/SNF complex 60 kDa subunit; 60 kDa BRG-1/Brm-associated factor subunit A
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