Product Name: KD-Validated SMARCD1 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00306
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 58.2kDa

Antigen Information

Gene Name	SMARCD1
Alternative Names	SMARCD1; SWI/SNF Related BAF Chromatin Remodeling Complex Subunit D1; BAF60A; SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily D, Member 1; CRACD1; Rsc6p; SWI/SNF-Related Matrix-Associated Actin-Dependent Regulator Of Chromatin Subfamily D Member 1; 60 KDa BRG-1/Brm-Associated Factor Subunit A; BRG1-Associated Factor 60A; Mammalian Chromatin Remodeling Complex BRG1-Associated Factor 60A; Chromatin Remodeling Complex BAF60A Subunit; SWI/SNF Complex 60 KDa Subunit A; SWI/SNF Complex 60 KDa Subunit; Swp73-Like Protein; CSS11
Gene ID	6602.0
SwissProt ID	Q96GM5
Immunogen	A synthesized peptide derived from human SMARCD1

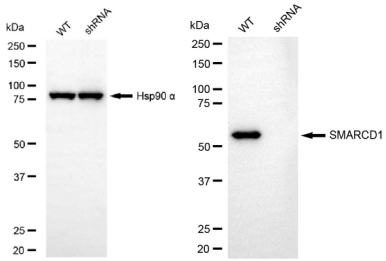
Background

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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

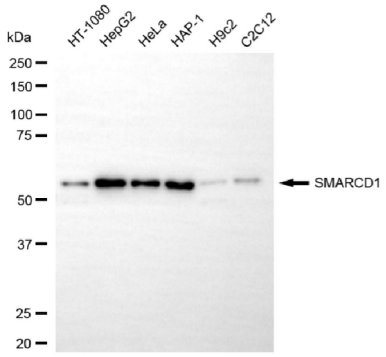
Research Area

Epigenetics and Nuclear Signaling

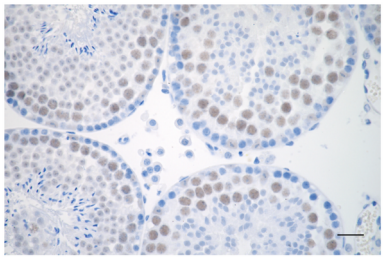
Image Data



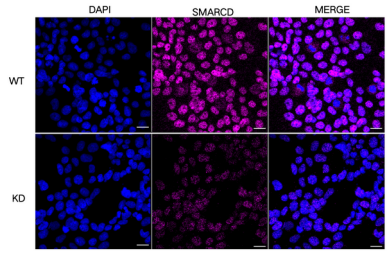
Western blotting analysis using SMARCD1 antibody (KVAb00306). SMARCD1 expression in wild-type (WT) and SMARCD1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with SMARCD1 antibody (KVAb00306, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



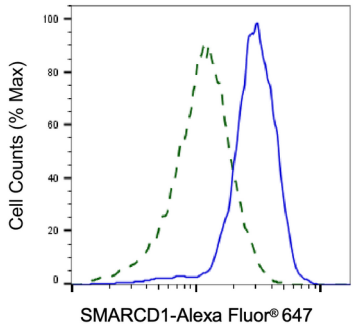
Western blotting analysis using SMARCD1 antibody (KVAb00306). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with SMARCD1 antibody (KVAb00306, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



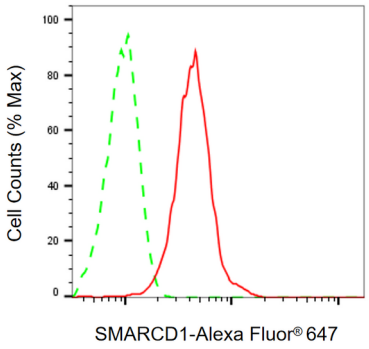
Immunohistochemistry was performed on paraffin-embedded mouse testis tissue using SMARCD1 antibody (KVAb00306, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HeLa cells using SMARCD1 antibody (KVAb00306, 1:1,000), Top panel: wild-type (WT); Bottom panal: SMARCD1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; SMARCD1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 μm.



Validation of SMARCD1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with SMARCD1 antibody (KVAb00306, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of SMARCD1 expression in HepG2 cells using SMARCD1 antibody (KVAb00306, 1:2,000). Green, isotype control; red, SMARCD1.