Product Name: **KD-Validated SMARCE1 Recombinant Rabbit Monoclonal Antibody**
Catalog #: **KVAb01666**
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
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
Molecular Weight	Calculated MW: 46.6kDa

Antigen Information

Gene Name	SMARCE1
Alternative Names	SMARCE1; SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily E, Member 1; BAF57; SWI/SNF-Related Matrix-Associated Actin-Dependent Regulator Of Chromatin Subfamily E Member 1; BRG1-Associated Factor 57; SWI/SNF-Related Matrix-Associated Actin-Dependent Regulator Of Chromatin E1; Chromatin Remodeling Complex BRG1-Associated Factor 57; CSS5
Gene ID	6605.0
SwissProt ID	Q969G3
Immunogen	A synthesized peptide derived from human BAF57/SMARCE1

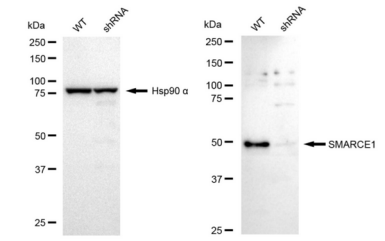
Background

The protein encoded by this gene is part of the large ATP-dependent chromatin remodeling complex SWI/SNF, which is required for transcriptional activation of genes normally repressed by chromatin. The encoded protein, either alone or when in the SWI/SNF complex, can bind to 4-way junction DNA, which is thought to mimic the topology of DNA as it enters or exits the nucleosome. The protein contains a DNA-binding HMG domain, but disruption of this domain does not abolish the DNA-binding or nucleosome-displacement activities of the SWI/SNF complex. Unlike most of the SWI/SNF complex proteins, this protein has no yeast counterpart. [provided by RefSeq, Jul 2008]

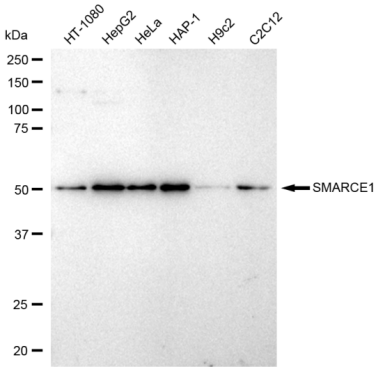
Research Area

Epigenetics and Nuclear Signaling

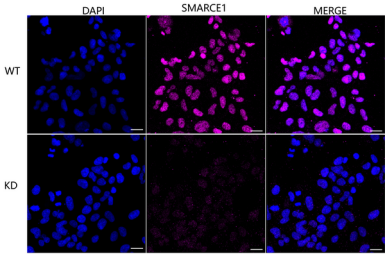
Image Data



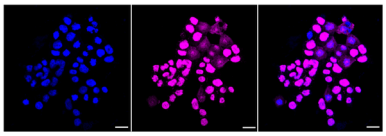
Western blotting analysis using SMARCE1 antibody (KVAb01666). SMARCE1 expression in wild type (WT) and SMARCE1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with SMARCE1 antibody (KVAb01666, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



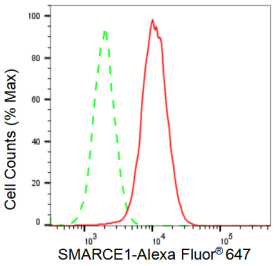
Western blotting analysis using SMARCE1 antibody (KVAb01666). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with SMARCE1 antibody (KVAb01666, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using SMARCE1 antibody (KVAb01666, 1:1,000), Top panel: wild-type (WT); Bottom panal: SMARCE1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; SMARCE1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HAP-1 cells with SMARCE1 antibody (KVAb01666, 1:1,000). Nuclei were stained blue with DAPI; SMARCE1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Flow cytometric analysis of SMARCE1 expression in HAP-1 cells using SMARCE1 antibody (KVAb01666, 1:2,000). Green, isotype control; red, SMARCE1.