[KD Validated] Anti-SMARCA4 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R020967

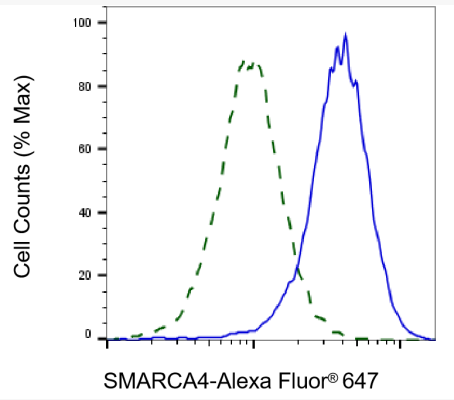
Product Information

Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:4,000~1:20,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	18T80C32
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human BRG1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-SMARCA4 Rabbit mAb [18T80C32] is for research use only and not for use in diagnostic or therapeutic procedures.

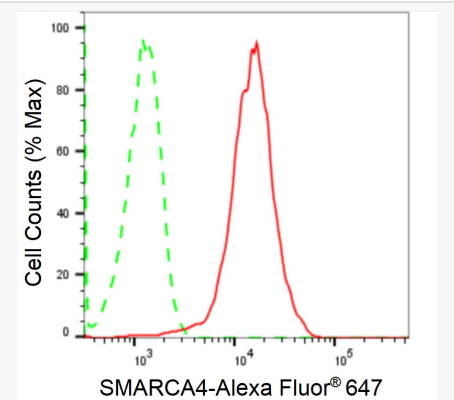
Protein Information

Synonyms	SMARCA4; SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily A, Member 4; BRG1; Mitotic Growth And Transcription Activator; ATP-Dependent Helicase SMARCA4; SNF2-BETA; HSNF2b; BAF190; SNF2LB; SNF2L4; SNF2; SWI2; Global Transcription Activator Homologous Sequence; Sucrose Nonfermenting-Like 4; Transcription Activator BRG1; BRG1-Associated Factor 190A; Protein Brahma Homolog 1; BRM/SWI2-Related Gene 1; Homeotic Gene Regulator; Brahma Protein-Like 1; Nuclear Protein GRB1; Protein BRG-1; SNF2-Like 4; FLJ39786; BAF190A; SWI/SNF-Related Matrix-Associated Actin-Dependent Regulator Of Chromatin Subfamily A Member 4; EC 3.6.4.-; SNF2-Beta; EC 3.6.1; MRD16; RTPS2; SNF2B; CSS4.
Calculated MW	Calculated MW: 185 kDa, Observed MW: 185 kDa
Uniprot ID	P51532
Gene ID	6597
Background	ATP-dependent chromatin remodeling complexes play an essential role in the regulation of various nuclear processes, such as gene expression, DNA replication, and repair. Acts as a corepressor of ZEB1 to regulate E-cadherin transcription and is required for induction of epithelial-mesenchymal transition (EMT) by ZEB1.

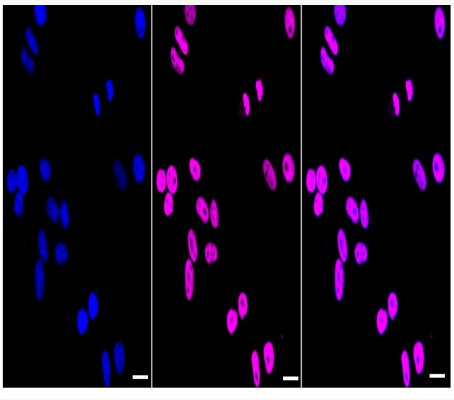
Validation Images



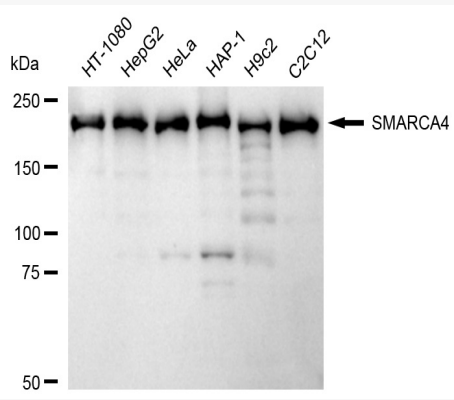
Validation of SMARCA4 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with SMARCA4 antibody (R020967, 1:2,000) and analyzed using BD flow cytometer.



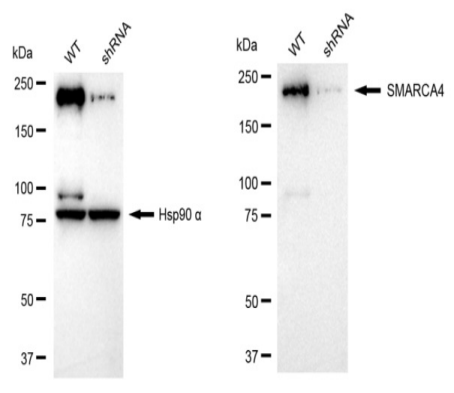
Flow cytometric analysis of SMARCA4 expression in HepG2 cells using SMARCA4 antibody (R020967, 1:2,000). Green, isotype control; red, SMARCA4.



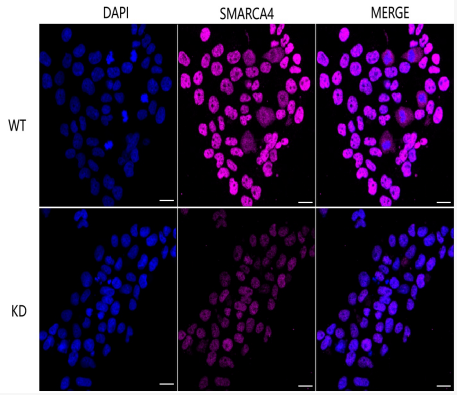
Immunocytochemical staining of HepG2 cells with SMARCA4 antibody (R020967, 1:1,000). Nuclei were stained blue with DAPI; SMARCA4 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.



Western blotting analysis using SMARCA4 antibody (R020967). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with SMARCA4 antibody (R020967, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using SMARCA4 antibody (R020967). SMARCA4 expression in wild type (WT) and SMARCA4 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with SMARCA4 antibody (R020967, 1:20,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Immunocytochemical staining of Hela cells using SMARCA4 antibody (R020967, 1:1,000), Top panel: wild-type (WT); Bottom panal: SMARCA4 shRNA knockdown (KD). Nuclei were stained blue with DAPI; SMARCA4 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.