
Product Name: KD-Validated Actin Like 6A Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00217

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: 47.5kDa

Antigen Information

Gene Name	ACTL6A
Alternative Names	ACTL6A; Actin Like 6A; BAF53A; INO80K; BRG1-Associated Factor 53A; INO80 Complex Subunit K; SMARCN1; 53 KDa BRG1-Associated Factor A; Actin-Related Protein Baf53a; BAF Complex 53 KDa Subunit; Actin-Related Protein; Actin-Like Protein 6A; ArpNbeta; ACTL6; BAF53; Arp4; HArpN Beta; ARPN-BETA; Baf53a; Actl6; ARP4
Gene ID	86.0
SwissProt ID	O96019
Immunogen	A synthesized peptide derived from human ACTL6A

Background

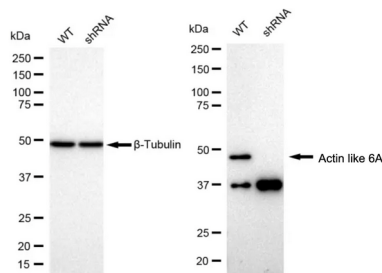
This gene encodes a family member of actin-related proteins (ARPs), which share significant amino acid sequence identity to

conventional actins. Both actins and ARPs have an actin fold, which is an ATP-binding cleft, as a common feature. The ARPs are involved in diverse cellular processes, including vesicular transport, spindle orientation, nuclear migration and chromatin remodeling. This gene encodes a 53 kDa subunit protein of the BAF (BRG1/brm-associated factor) complex in mammals, which is functionally related to SWI/SNF complex in *S. cerevisiae* and *Drosophila*; the latter is thought to facilitate transcriptional activation of specific genes by antagonizing chromatin-mediated transcriptional repression. Together with beta-actin, it is required for maximal ATPase activity of BRG1, and for the association of the BAF complex with chromatin/matrix. Three transcript variants that encode two different protein isoforms have been described. [provided by RefSeq, Jul 2008]

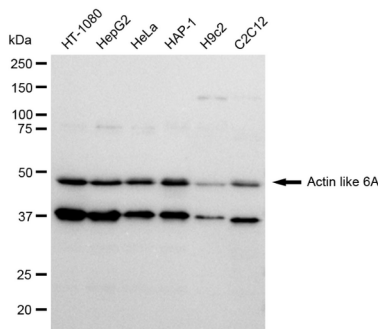
Research Area

Signal Transduction

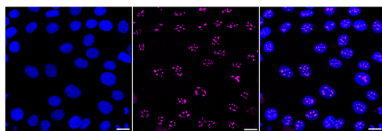
Image Data



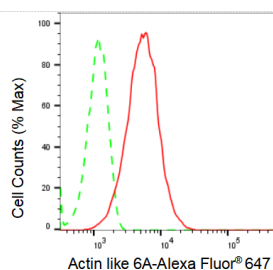
Western blotting analysis using Actin like 6A antibody (KVA00217). Actin like 6A expression in wild type (WT) and actin like 6A shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with Actin like 6A antibody (KVA00217, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Actin like 6A antibody (KVA00217). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Actin like 6A antibody (KVA00217, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HT-1080 cells with Actin like 6A antibody (KVA00217, 1:1,000). Nuclei were stained blue with DAPI; Actin like 6A was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of Actin like 6A expression in HepG2 cells using Actin like 6A antibody (KVA00217, 1:2,000). Green, isotype control; red, Actin like 6A.