
Product Name: KD-Validated Kinesin Associated Protein 3 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb01346

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM
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
Molecular Weight	Calculated MW: 91.2kDa

Antigen Information

Gene Name	KIFAP3 KIFAP3; Kinesin Associated Protein 3; SMAP; KAP3; Kinesin-Associated Protein 3; KAP-1;
Alternative Names	FLA3; Smg GDS-Associated Protein; KAP-3; Small G Protein GDP Dissociation Stimulator; DJ190I16.1; Smg GDS; Smg-GDS; KIF3AP
Gene ID	22920.0
SwissProt ID	Q92845
Immunogen	A synthesized peptide derived from human KIFAP3

Background

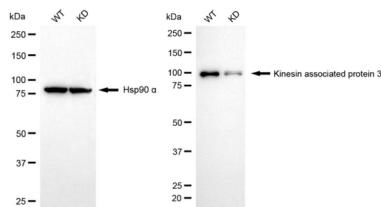
The small G protein GDP dissociation stimulator (smg GDS) is a regulator protein having two activities on a group of small G

proteins including the Rho and Rap1 family members and Ki-Ras; one is to stimulate their GDP/GTP exchange reactions, and the other is to inhibit their interactions with membranes. The protein encoded by this gene contains 9 'Armadillo' repeats and interacts with the smg GDS protein through these repeats. This protein, which is highly concentrated around the endoplasmic reticulum, is phosphorylated by v-src, and this phosphorylation reduces the affinity of the protein for smg GDS. It is thought that this protein serves as a linker between human chromosome-associated polypeptide (HCAP) and KIF3A/B, a kinesin superfamily protein in the nucleus, and that it plays a role in the interaction of chromosomes with an ATPase motor protein. Several transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2011]

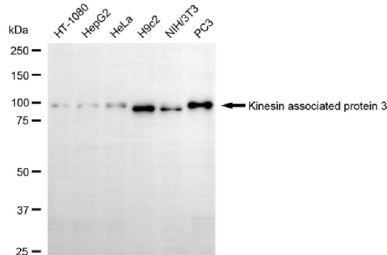
Research Area

Epigenetics and Nuclear Signaling

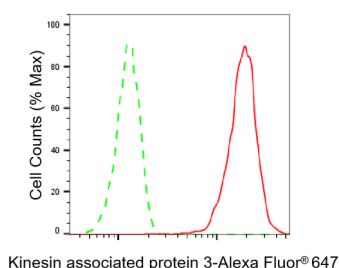
Image Data



Western blotting analysis using kinesin associated protein 3 antibody (KVA01346). Kinesin associated protein 3 expression in wild type (WT) and kinesin associated protein 3 (KIFAP3) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with kinesin associated protein 3 antibody (KVA01346, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using kinesin associated protein 3 antibody (KVA01346). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with kinesin associated protein 3 antibody (KVA01346, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Flow cytometric analysis of Kinesin associated protein 3 expression in HepG2 cells using Kinesin associated protein 3 antibody (KVA01346, 1:2,000). Green, isotype control; red, Kinesin associated protein 3.