10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SWAP70 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52767

Product Information

Application	WB, IP
Primary Accession	Q9UH65
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	68998

Additional Information

Gene ID	23075
Other Names	KIAA0640;70kDa;AV235546;FLJ39540;HSPC321;SWA 70 protein;SWAP 70;SWAP switching B-cell complex 70kDa subunit;SWAP-70;SWAP70;Switch associated protein 70;Switch-associated protein 70;SWP70_HUMAN.
Dilution	WB~~1:1000 IP~~1:500
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

Protein Information

Name	SWAP70
Synonyms	KIAA0640
Function	Phosphatidylinositol 3,4,5-trisphosphate-dependent guanine nucleotide exchange factor (GEF) which, independently of RAS, transduces signals from tyrosine kinase receptors to RAC. It also mediates signaling of membrane ruffling. Regulates the actin cytoskeleton as an effector or adapter protein in response to agonist stimulated phosphatidylinositol (3,4)-bisphosphate production and cell protrusion (By similarity).
Cellular Location	Cytoplasm. Cell membrane. Nucleus. Cell projection, lamellipodium. Cytoplasm, cytoskeleton. Note=In resting B-cells it is localized mainly in the cytoplasm and upon cell activation it is recruited to the plasma membrane and then translocates to the nucleus (PubMed:10681448) In activated, class-switching B-cells it is associated with membrane IgG but not IgM

	(PubMed:10681448). Localized to loose actin filament arrays located behind actively extending lamellipodia (PubMed:12925760).
Tissue Location	Expressed only in mature B-cells including those associated with mucosa-associated tissue and bronchus-associated tissue (PubMed:10681448). Widely expressed. Abundant in spleen, and fairly abundant in kidney, lung and liver. Also found in monocytes and macrophages (PubMed:12925760).

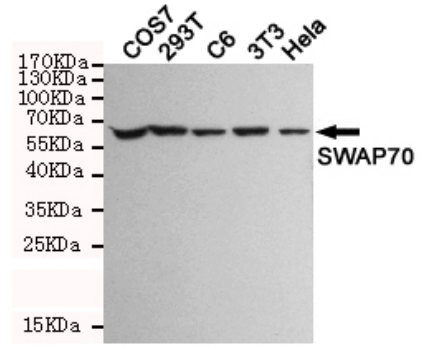
Background

Phosphatidylinositol 3,4,5-trisphosphate-dependent guanine nucleotide exchange factor (GEF) which, independently of RAS, transduces signals from tyrosine kinase receptors to RAC. It also mediates signaling of membrane ruffling. Regulates the actin cytoskeleton as an effector or adapter protein in response to agonist stimulated phosphatidylinositol (3,4)-bisphosphate production and cell protrusion (By similarity).

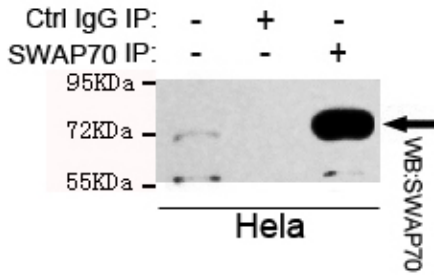
References

Masat L.,et al.Proc. Natl. Acad. Sci. U.S.A. 97:2180-2184(2000).
Rapalus L.,et al.Clin. Immunol. 101:270-275(2001).
Monz D.W.,et al.Submitted (MAR-1999) to the EMBL/GenBank/DDBJ databases.
Ishikawa K.,et al.DNA Res. 5:169-176(1998).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.

Images



Western blot detection of SWAP70 in COS7,293T,C6,3T3 and Hela cell lysates and using SWAP70 mouse mAb (1:1000 diluted).Predicted band size: 70KDa.Observed band size: 70KDa.



Immunoprecipitation analysis of Hela cell lysate using SWAP70 mouse mAb.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.