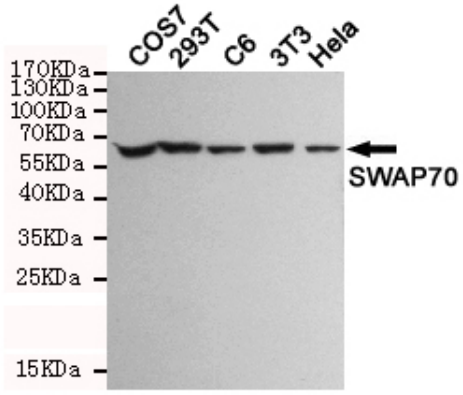
SWAP70 mouse mAb

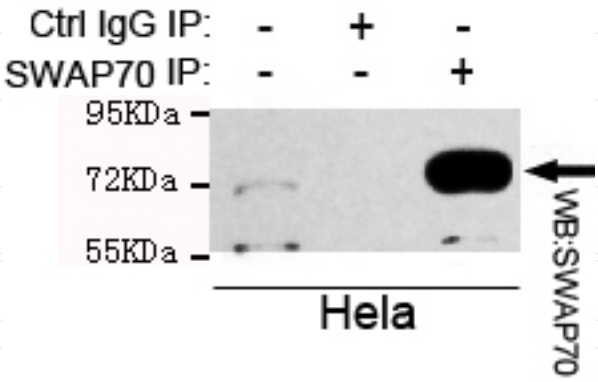
Catalog No	YP-Ab-04473
Isotype	IgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB;IP
Gene Name	swap70
Immunogen	Purified recombinant human SWAP70 protein fragments expressed in E.coli.
Specificity	This antibody detects endogenous levels of SWAP70 and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:1000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	SWAP70;KIAA0640;70kDa;AV235546;FLJ39540;HSPC321;SWA 70 protein; SWAP 70;SWAP switching B-cell complex 70kDa subunit;SWAP-70;Switch associated protein 70;Switch-associated protein 70;SWP70_HUMAN.
Observed Band	70kD
Calculated Molecular Weight	70kD
Cell Pathway	Cytoplasm . Cell membrane. Nucleus . Cell projection, lamellipodium . Cytoplasm, cytoskeleton . 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 Specificity	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).

Function	domain:The PH domain is essential for phosphatidylinositol 3,4,5-trisphosphate binding.,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.,PTM:Tyrosine-phosphorylated., similarity:Contains 1 PH domain.,subcellular location: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. In activated, class-switching B-cells it is associated with membrane IgG but not IgM. Localized to loose actin filament arrays located behind actively extendi
Background	domain:The PH domain is essential for phosphatidylinositol 3,4,5-trisphosphate binding.,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.,PTM:Tyrosine-phosphorylated., similarity:Contains 1 PH domain.,subcellular location: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. In activated, class-switching B-cells it is associated with membrane IgG but not IgM. Localized to loose actin filament arrays located behind actively extending lamellipodia., subunit:The SWAP complex consists of NPM1, NCL, PARP1 and SWAP70., tissue specificity: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).,
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products 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.