

KD-Validated Anti-SWAP70 Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI2245

Product Information

Application	WB
Primary Accession	Q9UH65
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Mouse IgG2b
Clone Names	25GB4225
Calculated MW	68998
Gene Name	SWAP70
Aliases	SWAP70; Switching B Cell Complex Subunit SWAP70; SWAP-70; Switch-Associated Protein 70; KIAA0640; SWAP Switching B-Cell Complex 70kDa Subunit; SWAP Switching B-Cell Complex Subunit 70; HSPC321
Immunogen	Recombinant protein of human SWAP70

Additional Information

Gene ID	23075
Other Names	Switch-associated protein 70, SWAP-70, SWAP70, KIAA0640

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).

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