

SWAP70 Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP1441c**Specification**

SWAP70 Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [Q9UH65](#)**SWAP70 Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 23075**Other Names**

Switch-associated protein 70, SWAP-70, SWAP70, KIAA0640

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP1441c](/product/products/AP1441c) was selected from the Center region of human SWAP70. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SWAP70 Antibody (Center) Blocking Peptide - 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).

SWAP70 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SWAP70 Antibody (Center) Blocking Peptide - Images**SWAP70 Antibody (Center) Blocking Peptide - Background**

SWAP70 is a 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. This protein regulates the actin cytoskeleton as an effector or adapter protein in response to agonist stimulated phosphatidylinositol (3,4)-bisphosphate production and cell protrusion.

SWAP70 Antibody (Center) Blocking Peptide - References

Hilpel, et al., Mol. Biol. Cell 14(8):3242-3253 (2003). Rapalus, L., et al., Clin. Immunol. 101(3):270-275 (2001). Masat, L., et al., Proc. Natl. Acad. Sci. U.S.A. 97(5):2180-2184 (2000).