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

PLEKHM2 Antibody (Center) Blocking peptide
Synthetic peptide
Catalog # BP5555c

Specification

PLEKHM2 Antibody (Center) Blocking peptide - Product Information

Primary Accession	Q8IWE5
Other Accession	NP_055979.2

PLEKHM2 Antibody (Center) Blocking peptide - Additional Information

Gene ID 23207

Other Names
Pleckstrin homology domain-containing family M member 2, PH domain-containing family M member 2, Salmonella-induced filaments A and kinesin-interacting protein, SifA and kinesin-interacting protein, PLEKHM2, KIAA0842, SKIP

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.

PLEKHM2 Antibody (Center) Blocking peptide - Protein Information

Name PLEKHM2 (HGNC:29131)

Function
Plays a role in lysosomes movement and localization at the cell periphery acting as an effector of ARL8B. Required for ARL8B to exert its effects on lysosome location, recruits kinesin-1 to lysosomes and hence direct their movement toward microtubule plus ends. Binding to ARL8B provides a link from lysosomal membranes to plus-end-directed motility (PubMed:28325809, PubMed:22172677, PubMed:25898167, PubMed:24088571). Critical factor involved in NK cell-mediated cytotoxicity. Drives the polarization of cytolytic granules and microtubule-organizing centers (MTOCs) toward the immune synapse between effector NK lymphocytes and target cells (PubMed:24088571). Required for maintenance of the Golgi apparatus organization (PubMed:22172677). May play a role in membrane tubulation (PubMed:15905402).

Cellular Location
Cytoplasm. Lysosome membrane; Peripheral membrane protein; Cytoplasmic side

PLEKHM2 Antibody (Center) Blocking peptide - Protocols

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

- Blocking Peptides

PLEKHM2 Antibody (Center) Blocking peptide - Images

PLEKHM2 Antibody (Center) Blocking peptide - Background

PLEKHM2, also known as SKIP, is a member of the M family of Pleckstrin homology domain-containing proteins. While little is known of PLEKHM2, a recent study examining differential gene expression in human hematopoietic stem cells has shown it to be specifically expressed in stem cells, suggesting that PLEKHM2 may play a role in erythroid commitment and development. Other studies have shown that PLEKHM2 is required for interaction with the Salmonella virulence factor SifA for Salmonella pathogenesis, suggesting that PLEKHM2 has cellular roles other than in the developing embryo.

PLEKHM2 Antibody (Center) Blocking peptide - References

Boucrot, E., et al. Science 308(5725):1174-1178(2005)