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

FNBP1 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP5123b

Specification

FNBP1 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession Q96RU3

FNBP1 Antibody (C-term) Blocking Peptide - Additional Information

Gene ID 23048

Other Names
Formin-binding protein 1, Formin-binding protein 17, hFBP17, FNBP1, FBP17, KIAA0554

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.

FNBP1 Antibody (C-term) Blocking Peptide - Protein Information

Name FNBP1

Synonyms FBP17, KIAA0554

Function
May act as a link between RND2 signaling and regulation of the actin cytoskeleton (By similarity). Required to coordinate membrane tubulation with reorganization of the actin cytoskeleton during the late stage of clathrin-mediated endocytosis. Binds to lipids such as phosphatidylinositol 4,5-bisphosphate and phosphatidylserine and promotes membrane invagination and the formation of tubules. Also enhances actin polymerization via the recruitment of WASL/N-WASP, which in turn activates the Arp2/3 complex. Actin polymerization may promote the fission of membrane tubules to form endocytic vesicles. May be required for the lysosomal retention of FASLG/FASL.

Cellular Location
Cytoplasm. Cytoplasm, cytoskeleton. Cytoplasm, cell cortex. Lysosome. Cytoplasmic vesicle. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Membrane, clathrin-coated pit Note=Enriched in cortical regions coincident with F-actin. Also localizes to endocytic vesicles and lysosomes

Tissue Location
Very highly expressed in the epithelial cells of the gastrointestinal tract, respiratory, reproductive

and urinary systems. Also highly expressed in brown adipose tissue, cardiomyocytes, enteric ganglia and glucagon producing cells of the pancreas. Expressed in germ cells of the testis and all regions of the brain

FNBP1 Antibody (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

FNBP1 Antibody (C-term) Blocking Peptide - Images

FNBP1 Antibody (C-term) Blocking Peptide - Background

FNBP1 is a member of the formin-binding-protein family. The protein contains an N-terminal Fer/Cdc42-interacting protein 4 (CIP4) homology (FCH) domain followed by a coiled-coil domain, a proline-rich motif, a second coiled-coil domain, a Rho family protein-binding domain (RBD), and a C-terminal SH3 domain. This protein binds sorting nexin 2 (SNX2), tankyrase (TNKS), and dynamin; an interaction between this protein and formin has not been demonstrated yet in human.

FNBP1 Antibody (C-term) Blocking Peptide - References

Tsuboi, S., et al. J. Biol. Chem. 284(13):8548-8556(2009)Takano, K., et al. EMBO J. 27(21):2817-2828(2008)Shimada, A., et al. Cell 129(4):761-772(2007)