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

FNBP1 / FBP17 Antibody (Internal)

Goat Polyclonal Antibody

Catalog # ALS13695

Specification

FNBP1 / FBP17 Antibody (Internal) - Product Information

Application	**WB**
Primary Accession	Q96RU3
Reactivity	**Human, Mouse, Rat, Zebrafish, Hamster, Monkey, Pig, Horse, Bovine, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**71kDa KDa**

FNBP1 / FBP17 Antibody (Internal) - Additional Information

Gene ID 23048

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

Target/Specificity
Human FNBP1.

Reconstitution & Storage
Store at -20°C. Minimize freezing and thawing.

Precautions
FNBP1 / FBP17 Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

FNBP1 / FBP17 Antibody (Internal) - 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

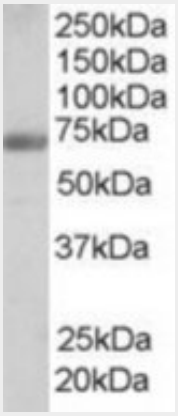
Tissue Location
Very highly expressed in the epithelial cells of the gastrointestinal tract, respiratory, reproductive and urinary systems. Also highly expressed in brown adipose tissue, cardiomyocytes, enteric ganglia and glucagon producing cells of the pancreas. Expressed in germ cells of the testis and all regions of the brain

FNBP1 / FBP17 Antibody (Internal) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FNBP1 / FBP17 Antibody (Internal) - Images



Antibody staining (0.25 ug/ml) of human testis lysate (RIPA buffer, 35 ug total protein per lane).

FNBP1 / FBP17 Antibody (Internal) - Background

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.

FNBP1 / FBP17 Antibody (Internal) - References

Fuchs U.,et al.Proc. Natl. Acad. Sci. U.S.A. 98:8756-8761(2001).
Nagase T.,et al.DNA Res. 5:31-39(1998).

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Humphray S.J.,et al.Nature 429:369-374(2004).
Richnau N.,et al.J. Biol. Chem. 276:35060-35070(2001).