FNBP1L Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	FNBP1L, Polyclonal Antibody
Full Product Name	FNBP1L, ID (FNBP1L, C1orf39, TOCA1, Formin-binding protein 1-like, Transducer of Cdc42-dependent actin assembly protein 1) (MaxLight 490)
Product Gene Name	anti-FNBP1L antibody
Product Synonym Names	FNBP1L; C1orf39; TOCA1; Formin-binding protein 1-like; Transducer of Cdc42-dependent actin assembly protein 1
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	69,434 Da
OMIM	608848
3D Structure	ModBase 3D Structure for Q5T0N5
Immunogen	FNBP1L antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 348-377 amino acids from the Central region of human FNBP1L.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-FNBP1L antibody	Antibodies; Actin Related Proteins
Applications Tested/Suitable for anti-FNBP1L antibody	Western Blot (WB), FLISA
Application Notes for anti-FNBP1L antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-FNBP1L antibody	The protein encoded by this gene binds to both CDC42 and N-WASP. This protein promotes CDC42-induced actin polymerization by activating the N-WASP-WIP complex and, therefore, is involved in a pathway that links cell surface signals to the actin cytoskeleton. Alternative splicing results in multiple transcript variants encoding different isoforms.
Product References and Citations for anti-FNBP1L antibody	Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010): Bu, W., et al. PLoS ONE 5 (8), E12153 (2010): Bu, W., et al. J. Biol. Chem. 284(17):11622-11636(2009). Huett, A., et al. J. Immunol. 182(8):4917-4930(2009). Leung, Y., et al. Cell Host Microbe 3(1):39-47(2008).

Other Notes	Small volumes of anti-FNBP1L antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for FNBP1L purchase	MBS6299506 is an antibody targeting FNBP1L. Also known as FNBP1L, ID (FNBP1L, C1orf39, TOCA1, Formin-binding protein 1-like, Transducer of Cdc42-dependent actin assembly protein 1) (MaxLight 490). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for FNBP1L. It may not necessarily be applicable to this product.

NCBI GI #	256600192
NCBI GeneID	54874
NCBI Accession #	NP_001157945.1
NCBI Related Accession #	NP_001020119.1
UniProt Primary Accession #	Q5T0N5
UniProt Secondary Accession #	Q5T0N6; Q6B097; Q6P653; Q6R4Q4; Q9NXG1; J3QSS4
UniProt Related Accession #	Q5T0N5
GenBank Nucleotide #	NM_001164473.2
NCBI Official Full Name	formin-binding protein 1-like isoform 3
NCBI Official Synonym Full Names	formin binding protein 1 like
NCBI Official Symbol	FNBP1L
NCBI Official Synonym Symbols	TOCA1; C1orf39
UniProt Protein Name	Formin-binding protein 1-like
UniProt Synonym Protein Names	Transducer of Cdc42-dependent actin assembly protein 1; Toca-1
Protein Family	Formin-binding protein
UniProt Gene Name	FNBP1L
UniProt Synonym Gene Names	C1orf39; TOCA1; Toca-1
UniProt Entry Name	FBP1L_HUMAN
NCBI Protein Information	formin-binding protein 1-like
UniProt Comments for FNBP1L	FNBP1L: Required to coordinate membrane tubulation with reorganization of the actin cytoskeleton during endocytosis. May bind to lipids such as phosphatidylinositol 4,5-bisphosphate and phosphatidylserine and promote membrane invagination and the formation of tubules. Also promotes CDC42-induced actin polymerization by activating the WASL/N-WASP-WASPIP/WIP complex, the predominant form of WASL/N-WASP in cells. Actin polymerization may promote the fission of membrane tubules to form endocytic vesicles. Essential for autophagy of intracellular bacterial pathogens. Belongs to the FNBP1 family. 5 isoforms of the human protein are produced by alternative splicing. Protein type: Adaptor/scaffold Chromosomal Location of Human Ortholog: 1p22.1 Cellular Component: cytoskeleton; cytoplasmic membrane-bound vesicle; cytoplasm; plasma membrane; cell cortex Molecular Function: protein binding; lipid binding Biological Process: positive regulation of filopodium formation; vesicle transport along actin filament; vesicle organization and biogenesis; membrane invagination; cilium biogenesis; autophagy; membrane budding

Research Articles on FNBP1L	**1.** This suggests that TOCA1 binding to Cdc42 is an early step in the Cdc42-dependent pathways that govern actin dynamics, and the differential binding affinities of the effectors facilitate a handover from TOCA1 to N-WASP, which can then drive recruitment of the actin-modifying machinery.
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