PSTPIP1 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PSTPIP1, Polyclonal Antibody
Full Product Name	PSTPIP1, NT (PSTPIP1, CD2BP1, Proline-serine-threonine phosphatase-interacting protein 1, CD2-binding protein 1, H-PIP) (MaxLight 750)
Product Gene Name	anti-PSTPIP1 antibody
Product Synonym Names	PSTPIP1; CD2BP1; Proline-serine-threonine phosphatase-interacting protein 1; CD2-binding protein 1; H-PIP
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes human PSTPIP1.
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: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	45,354 Da
OMIM	phenotype 606347
3D Structure	ModBase 3D Structure for O43586
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 89-118 in the N-terminal region of human PSTPIP1. Species sequence homology: mouse
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-PSTPIP1 antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-PSTPIP1 antibody	Western Blot (WB), Flow Cytometry (FC/FACS), FLISA
Application Notes for anti-PSTPIP1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-PSTPIP1 antibody	Proline-serine-threonine Phosphatase-interacting Protein 1 (PSTPIP1) binds to the cytoplasmic tail of CD2, an effector of T cell activation and adhesion, negatively affecting CD2-triggered T cell activation. PSTPIP1 appears to be a scaffold protein and a regulator of the actin cytoskeleton. It has also been shown to bind ABL1, PTPN18, WAS, CD2AP, and PTPN12. Mutations in the gene encoding this protein are a cause of PAPA syndrome.
Product References and Citations for anti-PSTPIP1 antibody	1. Andre, M.F., et al., Dig. Dis. Sci. 55(6): 1681-1688 (2010). 2. Rose, J., et al., Mol. Med. 16(7-8): 247-253 (2010). 3. Hong, J.B., et al., J. Am. Acad. Dermatol. 61(3): 533-535 (2009). 4. Voss, M., et al., BMC Immunol. 10: 53 (2009). 5. Waite, A.L., et al., PLoS ONE 4(7): E6147 (2009).

Other Notes	Small volumes of anti-PSTPIP1 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 PSTPIP1 purchase	MBS6338401 is an antibody targeting PSTPIP1. Also known as PSTPIP1, NT (PSTPIP1, CD2BP1, Proline-serine-threonine phosphatase-interacting protein 1, CD2-binding protein 1, H-PIP) (MaxLight 750). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PSTPIP1. It may not necessarily be applicable to this product.

NCBI GI #	20149528
NCBI GeneID	9051
NCBI Accession #	NP_003969.2
UniProt Primary Accession #	O43586
UniProt Secondary Accession #	O43585; O95657; B5BU74; B5BUK4
UniProt Related Accession #	O43586
GenBank Nucleotide #	NM_003978.3
NCBI Official Full Name	proline-serine-threonine phosphatase-interacting protein 1
NCBI Official Synonym Full Names	proline-serine-threonine phosphatase interacting protein 1
NCBI Official Symbol	PSTPIP1
NCBI Official Synonym Symbols	H-PIP; PAPAS; CD2BP1; PSTPIP; CD2BP1L; CD2BP1S
UniProt Protein Name	Proline-serine-threonine phosphatase-interacting protein 1
UniProt Synonym Protein Names	CD2-binding protein 1; H-PIP
Protein Family	Proline-serine-threonine phosphatase-interacting protein
UniProt Gene Name	PSTPIP1
UniProt Synonym Gene Names	CD2BP1; PEST phosphatase-interacting protein 1
UniProt Entry Name	PPIP1_HUMAN
NCBI Protein Information	proline-serine-threonine phosphatase-interacting protein 1; CD2 antigen-binding protein 1; CD2 cytoplasmic tail-binding protein; CD2-binding protein 1; PEST phosphatase-interacting protein 1
NCBI Summary for PSTPIP1	The protein encoded by this gene binds to the cytoplasmic tail of CD2, an effector of T cell activation and adhesion, negatively affecting CD2-triggered T cell activation. The encoded protein appears to be a scaffold protein and a regulator of the actin cytoskeleton. It has also been shown to bind ABL1, PTPN18, WAS, CD2AP, and PTPN12. Mutations in this gene are a cause of PAPA syndrome. [provided by RefSeq, Jul 2008]

UniProt Comments for PSTPIP1	PSTPIP1: an SH3-domain containing protein that may play a role in vesicle formation and transport. Interacts with PTP-PEST to inhibit WASp-driven actin polymerization and synapse formation. Protein type: Motility/polarity/chemotaxis; Adaptor/scaffold Chromosomal Location of Human Ortholog: 15q24.3 Cellular Component: membrane; lamellipodium; perinuclear region of cytoplasm; contractile ring; stress fiber; uropod; cytosol; cleavage furrow Molecular Function: protein binding; actin binding; protein phosphatase binding Biological Process: innate immune response; endocytosis; inflammatory response; signal transduction; cell adhesion Disease: Pyogenic Sterile Arthritis, Pyoderma Gangrenosum, And Acne
Research Articles on PSTPIP1	**1.** we have shown that PSTPIP1 regulates T-cell activation upon CD3 and CD28 stimulation, independently of CD2 costimulation. PSTPIP1 acts downstream of proximal TCR signaling, inhibiting several transcription factors.
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