

Recombinant Human proline-serine-threonine phosphatase interacting protein 1, His-tagged

Cat. No. PSTPIP1-204H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PSTPIP1, 1-416aa, Human, His tag, E.coli
Species	Human
Source	E.coli
ProteinLength	1-416 a.a.
Description	PSTPIP1 binds to the cytoplasmic tail of CD2, an effector of T cell activation and adhesion, negatively affecting CD2-triggered T cell activation. The 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. Recombinant human PSTPIP1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1mM DTT
Molecular Mass	50.0kDa (439aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMPQLQF KDAFWCRDFT AHTGYEVLLQ RLLDGRKMCK DMEELLRQRA QAEERYGKEL VQIARKAGGQ TEINSLRAS DSLKQQMENV GSSHIQLALT LREELRSLEE FRERQKEQRK KYEAVMDRVQ

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KSKLSLYKKA MESKKTYEQK CRDADDAEQA FERISANGHQ KQVEKSQNKA
 RQCKDSATEA ERVYRQSIAQ LEKVRAWEQ EHRTTCEAFQ LQEFDRLTIL
 RNALWVHSNQ LSMQCVKDDE LYEEVRLTLE GCSIDADIDS FIQAKSTGTE
 PPAPVPYQNY YDREVTPLTS SPGIQPSCGM IKRFSGLLHG SPKTTSLAAS
 AASTETLTPT PERNEGVYTA IAVQEIQGNP ASPAQEYRAL YDYTAQNPDE
 LDLSAGDILE VILEGEDGWW TVERNGQRGF VPGSYLEKL

Purity >90% by SDS - PAGE

Storage Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [PSTPIP1 proline-serine-threonine phosphatase interacting protein 1 \[Homo sapiens \]](#)

Official Symbol PSTPIP1

Synonyms PSTPIP1; proline-serine-threonine phosphatase interacting protein 1; proline-serine-threonine phosphatase-interacting protein 1; CD2 antigen binding protein 1; CD2 cytoplasmic tail binding protein; CD2BP1; CD2BP1L; CD2BP1S; H PIP; PAPAS; PEST phosphatase interacting protein 1; PSTPIP; CD2-binding protein 1; CD2 antigen-binding protein 1; CD2 cytoplasmic tail-binding protein; PEST phosphatase-interacting protein 1; H-PIP;

Gene ID [9051](#)

mRNA Refseq [NM_003978](#)

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Protein Refseq	NP_003969
MIM	606347
UniProt ID	O43586
Chromosome Location	15q24-q25.1
Pathway	Immune System, organism-specific biosystem; Inflammasomes, organism-specific biosystem; Innate Immune System, organism-specific biosystem; NOD-like receptor signaling pathway, organism-specific biosystem; NOD-like receptor signaling pathway, conserved biosystem; Nucleotide-binding domain, leucine rich repeat containing receptor (NLR) signaling pathways, organism-specific biosystem; T Cell Receptor Signaling Pathway, organism-specific biosystem;
Function	oxidoreductase activity;

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