

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 MGSMMPQLQF KDAFWCRDFT AHTGYEVLLQ RLLDGRKMCK DMEELLRQRA QAEERYGKEL VQIARKAGGQ TEINSLRAS DSLKQQMENV GSSHIQLALT LREELRSLEE FRERQKEQRK KYEAVMDRVQ

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

KSKLSLYKKA MESKKTYEQK CRDADDAEQA FERISANGHQ KQVEKSQNKA
 RQCKDSATEA ERVYRQSIAQ LEKVRAWEQ EHRTTCEAFQ LQEFDRILTIL
 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;

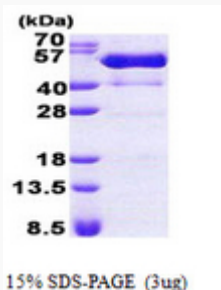
Gene ID [9051](#)

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;
 15% SDS-PAGE (3ug)	