

Recombinant Human PSTPIP1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PSTPIP1-1013H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PSTPIP1 MS Standard C13 and N15-labeled recombinant protein (NP_003969) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a cytoskeletal protein that is highly expressed in hemopoietic tissues. This protein functions via its interaction with several different proteins involved in cytoskeletal organization and inflammatory processes. It binds to the cytoplasmic tail of CD2, an effector of T cell activation and adhesion, downregulating CD2-triggered adhesion. It binds PEST-type protein tyrosine phosphatases (PTP) and directs them to c-Abl kinase to mediate c-Abl dephosphorylation, thereby, regulating c-Abl activity. It also interacts with pyrin, which is found in association with the cytoskeleton in myeloid/monocytic cells and modulates immunoregulatory functions. Mutations in this gene are associated with PAPA (pyogenic sterile arthritis, pyoderma gangrenosum, and acne) syndrome. It is hypothesized that the disease-causing mutations compromise physiologic signaling necessary for the maintenance of a proper inflammatory response.
Molecular Mass	47.6 kDa
AA Sequence	MMPQLQFKDAFWCRDFTAHTGYEVLLQRLLDGRKMCKDMEELLRQRAQAEERYG

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KELVQIARKAGGQTEINSLRASFDLSLKQQMENVGSSHIQLALTLREELRSLEEFRR
 QKEQRKKYEAVMDRVQKSKLSLYKKAMESKKTYEQKCRDADDAEQAFERISANGH
 QKQVEKSNKARQCKDSATEAERVYRQSIAQLEKVRAEWEQEHRRTTCEAFQLQEF
 DRLTILRNALWVHSNQLSMQCVKDDLEYEEVRLTLEGCSIDADIDSFIQAKSTGTEPP
 APVPYQNYDREVTPLTSSPGIQPSCGMIKRFSGLLHGSPKTTSLAASAASTETLTPT
 PERNEGVYTAIAVQEIQGNPASPAQEYRALYDYTAQNPDELDLSAGDILEVILEGEDG
 WWTVERNGQRGFVPGSYLEKLTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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

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-

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interacting protein 1; H-PIP;

Gene ID 9051

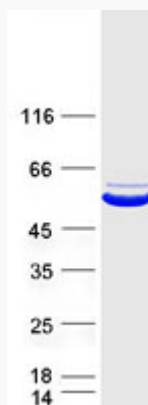
mRNA Refseq NM_003978

Protein Refseq NP_003969

MIM 606347

UniProt ID O43586

SDS-PAGE



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