

## Product datasheet for **PH303788**

### PSTPIP1 (NM\_003978) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	PSTPIP1 MS Standard C13 and N15-labeled recombinant protein (NP_003969)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC203788
Predicted MW:	47.6 kDa
Protein Sequence:	>RC203788 protein sequence Red=Cloning site Green=Tags(s)

MMPQLQFKDAFWCRDFTAHTGYEVLLQRLLDGRKMCKDMEELLRQRAQAEERYGKELVQIARKAGGQTEI  
NSLRASFDSLKQMQMENVGSSHIQLALTLREELRSLEEFRRERQKEQRKKYEAVMDRVQKSKLSLYKKAMES  
KKTYEQKCRDADDAEQAFERISANGHQKQVEKSQNKARQCKDSATEAERVYRQSIQAQLEKVRAEWEQEHR  
TTCEAFQLQEFDRILTILRNALWVHSNQLSMQCVKDELVEEVRLTLEGCSIDADIDSFIQAKSTGTEPPA  
PVPYQNYDREVTPLTSSPGIQPCGMIKRFGLLHGSPKTTSLAASAATETLTPTPERNEGVYTAIAV  
QEIQGNPASPAAQEYRALYDYTAQNPDLDL SAGDILEVILEGEDGWWTVERNGQRGFVPGSYLEKL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_003969</u>
RefSeq Size:	1870
RefSeq ORF:	1248
Synonyms:	CD2BP1; CD2BP1L; CD2BP1S; H-PIP; PAPAS; PSTPIP
Locus ID:	9051



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UniProt ID: [O43586](#), [A0A0S2Z5P3](#)

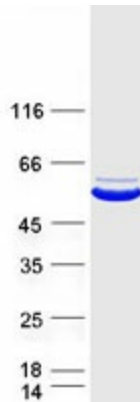
Cytogenetics: 15q24.3

**Summary:** 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. [provided by RefSeq, Mar 2016]

**Protein Families:** Druggable Genome

**Protein Pathways:** NOD-like receptor signaling pathway

### Product images:



Coomassie blue staining of purified PSTPIP1 protein (Cat# [TP303788]). The protein was produced from HEK293T cells transfected with PSTPIP1 cDNA clone (Cat# [RC203788]) using MegaTran 2.0 (Cat# [TT210002]).