

## Product datasheet for AR50982PU-N

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OriGene Technologies, Inc.

## PSTPIP1 / CD2BP1 (1-416, His-tag) Human Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** PSTPIP1 / CD2BP1 (1-416, His-tag) human protein, 0.5 mg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** 

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSMMPQLQF KDAFWCRDFT AHTGYEVLLQ RLLDGRKMCK DMEELLRQRA QAEERYGKEL VQIARKAGGQ TEINSLRASF DSLKQQMENV GSSHIQLALT

LREELRSLEE FRERQKEQRK KYEAVMDRVQ KSKLSLYKKA MESKKTYEQK CRDADDAEQA FERISANGHQ KQVEKSQNKA RQCKDSATEA ERVYRQSIAQ LEKVRAEWEQ EHRTTCEAFQ LQEFDRLTIL RNALWVHSNQ LSMQCVKDDE LYEEVRLTLE GCSIDADIDS FIQAKSTGTE

PPAPVPYQNY YDREVTPLTS SPGIQPSCGM IKRFSGLLHG SPKTTSLAAS AASTETLTPT PERNEGVYTA

IAVQEIQGNP ASPAQEYRAL YDYTAQNPDE LDLSAGDILE VILEGEDGWW TVERNGQRGF

VPGSYLEKL

Tag: His-tag

Predicted MW: 50.0 kDa

Concentration: lot specific

Purity: >90% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 1 mM

DTT

**Preparation:** Liquid purified protein

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid

repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeq:** NP 001308064

**Locus ID:** 9051

UniProt ID: <u>043586</u>, <u>043586-2</u>

Cytogenetics: 15q24.3





Synonyms: CD2BP1; CD2BP1L; CD2BP1S; H-PIP; PAPAS; PSTPIP

**Summary:** This gene encodes a cytoskeletal protein that is highly expressed in hemopoietic tissues. This

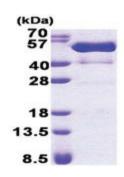
protein functions via its interaction with several different proteins involved in cytoskeletal organization and inflammatory processes. It binds to the cytoplasmic tail of CD2, an effector of T cell activation and adhesion, downregulating CD2-triggered adhesion. It binds PEST-type protein tyrosine phosphatases (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:**



15% SDS-PAGE (3ug)