

## Product datasheet for **AR50982PU-N**

### 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 MGSMMMPQLQF KDAFWCRDFT AHTGYEVLLQ RLLDGRKMCK DMEELLRQRA QAEERYGKEL VQIARKAGGQ TEINSLRAS FDSLKQQMENV GSSHIQLALT LREELRSLEE FRERQKEQRK KYEAVMDRVQ KSKLSLYKKA MESKKTYEQK CRDADDAEQA FERISANGHQ KQVEKSQNK A RQCKDSATEA ERVYRQSIAQ LEKVRAEWEQ EHRTTCEAFQ LQEFDRILTIL RNALWVHSNQ LSMQC VKDDE 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:	<a href="#">NP_001308064</a>
Locus ID:	9051
UniProt ID:	<a href="#">O43586</a> , <a href="#">O43586-2</a>
Cytogenetics:	15q24.3



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**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:

