## PTPN12 (Human) Recombinant Protein (Q01)

Catalog # H00005782-Q01 Size 25 ug, 10 ug

## Applications



Specification	
Product Description	Human PTPN12 partial ORF (NP_002826.2, 682 a.a 779 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	PESFVLASEHNTPVRSEWSELQSQERSEQKKSEGLITSENEKCDHPAGGIHYEMCIECPPTFSDK REQISENPTEATDIGFGNRCGKPKGPRDPPSEW
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.52
Interspecies Antigen Sequence	Mouse (67); Rat (66)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCI, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.



## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PTPN12	
Entrez GenelD	<u>5782</u>
GeneBank Accession#	<u>NM_002835</u>
Protein Accession#	<u>NP_002826.2</u>
Gene Name	PTPN12
Gene Alias	PTP-PEST, PTPG1
Gene Description	protein tyrosine phosphatase, non-receptor type 12
Omim ID	<u>600079</u>
Gene Ontology	Hyperlink
Gene Summary	Hyperlink The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, dif ferentiation, mitotic cycle, and oncogenic transformation. This PTP contains a C-terminal PEST m otif, which serves as a protein-protein interaction domain, and may regulate protein intracellular h alf-life. This PTP was found to bind and dephosphorylate the product of the oncogene c-ABL and t hus may play a role in oncogenesis. This PTP was also shown to interact with, and dephosphoryla te, various products related to cytoskeletal structure and cell adhesion, such as p130 (Cas), CAK beta/PTK2B, PSTPIP1, and paxillin. This suggests it has a regulatory role in controlling cell shape and mobility. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [ provided by RefSeq

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- Genetic Predisposition to Disease
- Graves Disease
- Graves Ophthalmopathy
- Kidney Failure