

Product datasheet for **TA342181**

PTPN12 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-PTPN12 antibody: synthetic peptide directed towards the middle region of human PTPN12. Synthetic peptide located within the following region: SSIEPEKQDSPPPKPPRTRSCLVGDAKEEILQPPEPHPVPPILTPSPPS
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	88 kDa
Gene Name:	protein tyrosine phosphatase, non-receptor type 12
Database Link:	NP_002826 Entrez Gene 5782 Human Q05209



[View online »](#)

Background:

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, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains a C-terminal PEST motif, which serves as a protein-protein interaction domain, and may regulate protein intracellular half-life. This PTP was found to bind and dephosphorylate the product of the oncogene c-ABL and thus may play a role in oncogenesis. This PTP was also shown to interact with, and dephosphorylate, various products related to cytoskeletal structure and cell adhesion, such as p130 (Cas), CAKbeta/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, Oct 2008]

Synonyms:

PTP-PEST; PTPG1

Note:

Immunogen Sequence Homology: Pig: 100%; Rat: 100%; Human: 100%; Mouse: 100%; Rabbit: 100%; Guinea pig: 100%; Dog: 93%; Horse: 93%; Bovine: 93%

Protein Families:

Druggable Genome, Phosphatase

Product images:

WB Suggested Anti-PTPN12 Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:1562500; Positive Control: HT1080 cell lysate. PTPN12 is strongly supported by BioGPS gene expression data to be expressed in Human HT1080 cells