

Product datasheet for TP307952M

PTPN12 (NM_002835) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Recombinant protein of human protein tyrosine phosphatase, non-receptor type 12 (PTPN12), transcript variant 1, 100 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC207952 protein sequence Red=Cloning site Green=Tags(s) |

MEQVEILRKFIQRVQAMKSPDHNGEDNFARDFMRLRRLSTKYRTEKIYPTATGEKEENVKKNRYKDILPF
DHSRVKLTCLKTPSQSDYINANFIKGVYGPAYVATQGPLANTVIDFWRMIWEYNVVIIVMACREFEMGR
KKCERYWPLYGEDPITFAPFKISCEDEQARTDYFIRTLLEFQNESRRLYQFHVYVWPDHDPVSSFDSIL
DMISLMRKYQEHEDVPICIHCSAGCGRTGAICAIDYTNLLKAGKIPEEFNVFNLIQEMRTQRHSAVQTK
EQYELVHRAIAQLFEKQLQLYEIHGAQKIADGVNEINTENMISSIEPEKQDSSPPKPPRTRSCLVGDAK
EEILQPPEPHVPPILTSPPSAFPTVTTVWQDNDRYHHPKPVLMVSSSEQHSADLNRNYSKSTELPGKNE
STIEQIDKKLERNLSFEIKKVLQEGPKSFDGNTLLNRGHAIKIKSASPCADKISKPQELSSDLNVGDT
SQNSCVDCSVTQSNKVSVTPPEESQNSDTPPRDRLPLDEKGHVTSFHHGPENAIPIPDLEGNSSDINY
QTRKTVSLTPSPTTQVETPDLVDHDNTSPLFRTPLSFTNPLHSDSDSDERNSDGAVTQNKTNISTASAT
VSAATSTESISTRKVLPMIARHNIAGTTHSGAEKDVDVSEDSPPPLPERTPESFVLASEHNTVPRSEWS
ELQSQRSEQKKSEGLITSENEKCDHPAGGIHYEMCIECPPTFSDKREQISENPTEATDIGFGNRCGKPK
GPRDPPSEWT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

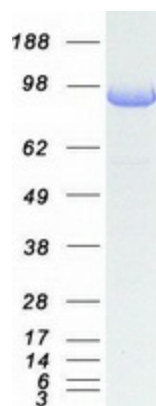
| | |
|----------------|--|
| Tag: | C-Myc/DDK |
| Predicted MW: | 87.9 kDa |
| Concentration: | >0.05 µg/µL as determined by microplate BCA method |
| Purity: | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| Buffer: | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol |
| Preparation: | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps. |



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| Note: | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process. |
| Storage: | Store at -80°C. |
| Stability: | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| RefSeq: | NP_002826 |
| Locus ID: | 5782 |
| UniProt ID: | Q05209 |
| RefSeq Size: | 3240 |
| Cytogenetics: | 7q11.23 |
| RefSeq ORF: | 2340 |
| Synonyms: | PTP-PEST; PTPG1 |
| Summary: | 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] |
| Protein Families: | Druggable Genome, Phosphatase |

Product images:



Coomassie blue staining of purified PTPN12 protein (Cat# [TP307952]). The protein was produced from HEK293T cells transfected with PTPN12 cDNA clone (Cat# [RC207952]) using MegaTran 2.0 (Cat# [TT210002]).