

OriGene Technologies, Inc.

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Product datasheet for TP304902

PTP1B (PTPN1) (NM_002827) Human Recombinant Protein

Product data:

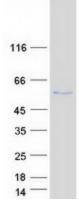
| Product Type: | Recombinant Proteins |
|--|---|
| Description: | Recombinant protein of human protein tyrosine phosphatase, non-receptor type 1 (PTPN1), 20 µg |
| Species: | Human |
| Expression Host: | HEK293T |
| Expression cDNA Clone or AA Sequence: | >RC204902 protein sequence Red=Cloning site Green=Tags(s) |
| | MEMEKEFEQIDKSGSWAAIYQDIRHEASDFPCRVAKLPKNKNRNRYRDVSPFDHSRIKLHQEDNDYINAS LIKMEEAQRSYILTQGPLPNTCGHFWEMVWEQKSRGVVMLNRVMEKGSLKCAQYWPQKEEKEMIFEDTNL KLTLISEDIKSYYTVRQLELENLTTQETREILHFHYTTWPDFGVPESPASFLNFLFKVRESGSLSPEHGP VVVHCSAGIGRSGTFCLADTCLLLMDKRKDPSSVDIKKVLLEMRKFRMGLIQTADQLRFSYLAVIEGAKF IMGDSSVQDQWKELSHEDLEPPPEHIPPPPRPPKRILEPHNGKCREFFPNHQWVKEETQEDKDCPIKEEK GSPLNAAPYGIESMSQDTEVRSRVVGGSLRGAQAASPAKGEPSLPEKDEDHALSYWKPFLVNMCVATVLT AGAYLCYRFLFNSNT |
| | TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| Tag: | C-Myc/DDK |
| Predicted MW: | 49.8 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. |
| 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. |



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| | PTP1B (PTPN1) (NM_002827) Human Recombinant Protein – TP304902 |
|-------------------|---|
| RefSeq: | <u>NP 002818</u> |
| Locus ID: | 5770 |
| UniProt ID: | <u>P18031, A8K3M3</u> |
| RefSeq Size: | 3573 |
| Cytogenetics: | 20q13.13 |
| RefSeq ORF: | 1305 |
| Synonyms: | PTP1B |
| Summary: | The protein encoded by this gene is the founding member of the protein tyrosine phosphatase (PTP) family, which was isolated and identified based on its enzymatic activity and amino acid sequence. PTPs catalyze the hydrolysis of the phosphate monoesters specifically on tyrosine residues. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP has been shown to act as a negative regulator of insulin signaling by dephosphorylating the phosphotryosine residues of insulin receptor kinase. This PTP was also reported to dephosphorylate epidermal growth factor receptor kinase, as well as JAK2 and TYK2 kinases, which implicated the role of this PTP in cell growth control, and cell response to interferon stimulation. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2013] |
| Protein Families: | Druggable Genome, Phosphatase, Transmembrane |
| Protein Pathways | Adherens junction, Insulin signaling pathway |
| Draduct imag | |

Product images:



Coomassie blue staining of purified PTPN1 protein (Cat# TP304902). The protein was produced from HEK293T cells transfected with PTPN1 cDNA clone (Cat# [RC204902]) using MegaTran 2.0 (Cat# [TT210002]).

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