

## Product datasheet for **TP522130**

### **Ptprb (NM\_029928) Mouse Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Mouse protein tyrosine phosphatase, receptor type, B (Ptprb), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
<b>Species:</b>	Mouse
<b>Expression Host:</b>	HEK293T



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Expression cDNA >MR222130 representing NM\_029928  
 Clone or AA Sequence: **Red**=Cloning site **Green**=Tags(s)

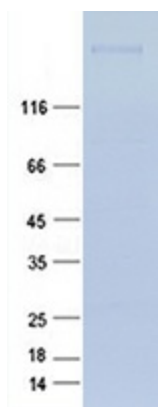
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 GISPNPNLLISWSRSGSNVEQYRLVLMDKGAIQDNTNVDRRDTSYAFHELTPGHLYNLITVTMASGLQN  
 SRWKLVRTAPMEVSNLKVNTDGRLLTSLNVKWQKPPGDVDSYSITLSHQGTIKESKTLAPPVTETQFKDLV  
 PGRLYQVTISCISGELSAEKSAAGRTVPEKVRNLVSYNEIWMKSFTVNWTPPAGDWEHYRIVLNFESLVL  
 LNTTVGKEETHYALDGLELIPGRQYEIEVIVESGNLRNSERCQGRTPPLAVLQLRVKHANETSLGITWRA  
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 SSLTPGRLYNVTVTTKSGNYASHSFEERTVPDKVQGISVNSARSYDLKVSWWHATGDFDHYEVTIKNR  
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 SRANGDVDQYEVQLLFNDMKVFPPIHLVNTATEYKFTALTPGRHYKILVLTISGDVQQSAFIEGLTVPST  
 VKNIHISANGATDRLMVTWSPGGGDVDSYVSAFRQDEKVDSTIPKHASEHTFHRLEAGAKYRIAIIVSV  
 SGSLRNQIDALGQTPASVQGVAAANAYSSNSLTVSWQKALGVAERYDILLNENGLLLSNVSEPARQ  
 HKFEDLTPGKKYKMQILTVSGGLFSKESQAEGRTPAAVTNLRITENSSRYLSFGWTASEGELSWYNIFL  
 YNPDRTLQERAQVDPLVQSFSFQNLQGRMYKMVIVTHSGELSNESFIFGRTVPAAVNHLKGSRNTTDS  
 LWFWSWSPASGDFDFYELILYNPNGTKKENWKEKDVTEWRFQGLVPRKYTYLVVTHSGDLSNKVTGEGRT  
 APSPSLLSFADVANTSLAITWKGPPDWDYNDFELQWFGDALTIFNPYSSRKSEGRIVYGLHPGRSYQ  
 FSVKTVSGDSWKTYSKPISGSRVTKPKDKIQLHCRPQNSTAIACSWIPDSDFDGYSIECRKMDTQEIEF  
 SRKLEKEKSLNIMMLVPHKRYLVSIKVSAGMTSEVEDSTITMIDRPPQPPHIRVNEKDLISKSSI  
 NFTVNCWFSDTNGAVKYFAVWVREADSMDELKPEQQHPLPSYLEYRHNASIRVYQTNFYASKCAESPDS  
 SSKSFNIKGAEMDSLGGKCDPSQQKFCDGPLKPHTAYRISIRAFQTLFDEDLKEFTKPLYSDTFFSMPI  
 TTESEPLFGVIEGVSAGLFLIGMLVALVAFFICRQKASHSRERPSARLSIRDRPLSVHLNLGQKGNRKT  
 SCPIKINQFEGHFMKLQADSNYLLSKEYEDLKDVGRSQSCDIALLPENRGKNRYNNILPYDASRVKLCNV  
 DDDPCSDYINASYIPGNNFRREYIATQGPLPGTKDDFWKMAWEQNVHNIVMTQCVEKGRVKCDHYWPAD  
 QDPLYYGDLILQMVSESVLPEWTIREFKICSEEQLDAHRLIRHFHYTVWPDHGVPETTQSLIQFVRTVRD  
 YINRSPGAGPTVVHCSAGVGRGTGFVALDRILQQLDSKDSVDIYGAVHDLRLHRVHMVQTECQYVYLHQC  
 VRDVLRAKLRNEQENPLFPIYENVNPEYHRDAIYSRH

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-MYC/DDK  
**Predicted MW:** 224.9 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  
**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

<b>Storage:</b>	Store at -80°C after receiving vials.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_084204</a>
<b>Locus ID:</b>	19263
<b>UniProt ID:</b>	<a href="#">B2RU80</a>
<b>RefSeq Size:</b>	11912
<b>Cytogenetics:</b>	10 D2
<b>RefSeq ORF:</b>	5994
<b>Synonyms:</b>	3230402H02Rik; C130094E24; Ptpz; Rptpb; VE-PTP; Veptp
<b>Summary:</b>	Plays an important role in blood vessel remodeling and angiogenesis. Not necessary for the initial formation of blood vessels, but is essential for their maintenance and remodeling. Can induce dephosphorylation of TEK/TIE2, CDH5/VE-cadherin and KDR/VEGFR-2. Regulates angiopoietin-TIE2 signaling in endothelial cells. Acts as a negative regulator of TIE2, and controls TIE2 driven endothelial cell proliferation, which in turn affects blood vessel remodeling during embryonic development and determines blood vessel size during perinatal growth. Essential for the maintenance of endothelial cell contact integrity and for the adhesive function of VE-cadherin in endothelial cells and this requires the presence of plakoglobin.[UniProtKB/Swiss-Prot Function]

### Product images:



Purified recombinant protein Ptprb was analyzed by SDS-PAGE gel and Coomassie Blue Staining.