



## Anti-PTPRM (aa 381-479) polyclonal antibody (DPAB-DC2622)

This product is for research use only and is not intended for diagnostic use.

### PRODUCT INFORMATION

<b>Antigen Description</b>	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. 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 possesses an extracellular region, a single transmembrane region, and two tandem catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains a meprin-A5 antigen-PTP mu (MAM) domain, an Ig-like domain and four fibronectin type III-like repeats. This PTP has been shown to mediate cell-cell aggregation through the interaction with another molecule of this PTP on an adjacent cell. This PTP can interact with scaffolding protein RACK1/GNB2L1, which may be necessary for the downstream signaling in response to cell-cell adhesion. Alternative splicing results in multiple transcripts encoding distinct isoforms.
<b>Immunogen</b>	PTPRM (NP_002836, 381 a.a. ~ 479 a.a) partial recombinant protein with GST tag. The sequence is  RGPRKLEVVEVKSRSRQITIRWEPEFGYNVTRCHSYNLTVHYCYQVGGQEQQVREEVSWDTENS HPQHTITNLSPYTNVSVKLILMNPEGRKESQELIVQTDE
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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## GENE INFORMATION

<b>Gene Name</b>	<a href="#">PTPRM protein tyrosine phosphatase, receptor type, M [ Homo sapiens (human) ]</a>
<b>Official Symbol</b>	PTPRM
<b>Synonyms</b>	PTPRM; protein tyrosine phosphatase, receptor type, M; RPTPM; RPTPU; PTPRL1; hR-PTPU; R-PTP-MU; receptor-type tyrosine-protein phosphatase mu; protein tyrosine phosphatase mu; protein-tyrosine phosphatase mu; protein tyrosine phosphatase, receptor type, mu polypeptide;
<b>Entrez Gene ID</b>	<a href="#">5797</a>
<b>Protein Refseq</b>	<a href="#">NP_001098714</a>
<b>UniProt ID</b>	<a href="#">P28827</a>
<b>Chromosome Location</b>	18p11.2
<b>Pathway</b>	Adherens junction; Nectin adhesion pathway;
<b>Function</b>	cadherin binding; identical protein binding; protein binding; protein tyrosine phosphatase activity

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