



# 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<br>RGPRKLEVVEVKSRQITIRWEPFGYNVTRCHSYNLTVHYCYQVGGQEQVREEVSWDTENS<br>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.

## GENE INFORMATION

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