

PTPRM polyclonal antibody

Catalog # PAB7422

Size 100 ug

Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of PTPRM.
Immunogen	A synthetic peptide corresponding to human PTPRM.
Sequence	C-KLIRQVDKWQEEYN
Host	Goat
Theoretical MW (kDa)	165, 164
Specificity	This antibody is expected to recognize both reported isoforms (NP_001098714.1 and NP_002836.3).
Form	Liquid
Purification	Antigen affinity purification
Concentration	0.5 mg/mL
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:16000) The optimal working dilution should be determined by the end user.
Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay

Gene Info — PTPRM

Entrez GeneID [5797](#)

Protein Accession# [NP_001098714.1;NP_002836.3](#)

Gene Name PTPRM

Gene Alias MGC166994, PTPRL1, R-PTP-MU, RPTPM, RPTPU, hR-PTPu

Gene Description protein tyrosine phosphatase, receptor type, M

Omim ID [176888](#)

Gene Ontology [Hyperlink](#)

Gene Summary

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. [provided by RefSeq]

Other Designations protein tyrosine phosphatase mu|protein tyrosine phosphatase, receptor type, mu polypeptide

Publication Reference

- [Molecular analysis of receptor protein tyrosine phosphatase mu-mediated cell adhesion.](#)

Aricescu AR, Hon WC, Siebold C, Lu W, van der Merwe PA, Jones EY.

The EMBO Journal 2006 Feb; 25(4):701.

Pathway

- [Adherens junction](#)
- [Cell adhesion molecules \(CAMs\)](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Lupus Erythematosus](#)
- [Tobacco Use Disorder](#)