

PTPRM / PTP Mu Antibody (Internal)
Rabbit Polyclonal Antibody
Catalog # ALS10599**Specification**

PTPRM / PTP Mu Antibody (Internal) - Product Information

Application	IHC
Primary Accession	P28827
Reactivity	Human, Rabbit, Monkey, Bovine, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	164kDa KDa

PTPRM / PTP Mu Antibody (Internal) - Additional Information**Gene ID** 5797**Other Names**

Receptor-type tyrosine-protein phosphatase mu, Protein-tyrosine phosphatase mu, R-PTP-mu, 3.1.3.48, PTPRM, PTPRL1

Target/Specificity

Human PTPRM. BLAST analysis of the peptide immunogen showed no homology with other human proteins, except PTPRT (56%).

Reconstitution & Storage

Long term: -70°C; Short term: +4°C

Precautions

PTPRM / PTP Mu Antibody (Internal) is for research use only and not for use in diagnostic or therapeutic procedures.

PTPRM / PTP Mu Antibody (Internal) - Protein Information**Name** PTPRM**Synonyms** PTPRL1**Function**

Receptor protein-tyrosine phosphatase that mediates homotypic cell-cell interactions and plays a role in adipogenic differentiation via modulation of p120 catenin/CTNND1 phosphorylation (PubMed: [10753936](http://www.uniprot.org/citations/10753936), PubMed: [17761881](http://www.uniprot.org/citations/17761881)). Promotes CTNND1 dephosphorylation and prevents its cytoplasmic localization where it inhibits SLC2A4 membrane trafficking. In turn, SLC2A4 is directed to the plasma membrane and performs its glucose transporter function (PubMed: [21998202](http://www.uniprot.org/citations/21998202)).

Cellular Location

Cell membrane; Single-pass type I membrane protein. Note=Localizes in regions of cell- cell contact.

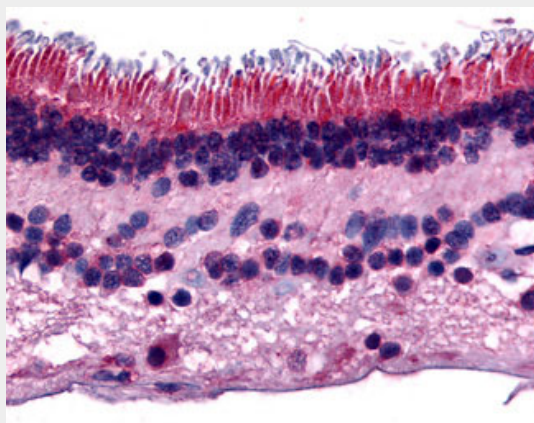
Volume

50 µl

PTPRM / PTP Mu Antibody (Internal) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PTPRM / PTP Mu Antibody (Internal) - Images

Anti-PTPRM antibody ALS10599 IHC of human retina.

PTPRM / PTP Mu Antibody (Internal) - Background

Involved in cell-cell adhesion through homophilic interactions. May play a key role in signal transduction and growth control.

PTPRM / PTP Mu Antibody (Internal) - References

Gebbink M.F.B.G.,et al.FEBS Lett. 290:123-130(1991).
Nusbaum C.,et al.Nature 437:551-555(2005).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Liu T.,et al.J. Proteome Res. 4:2070-2080(2005).
Dephoure N.,et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767(2008).