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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:17761881, PubMed:10753936). 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).

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

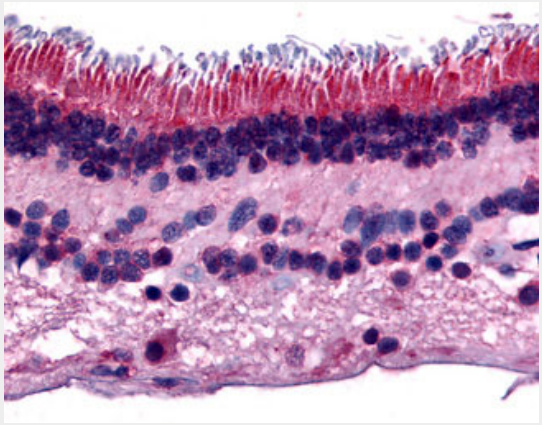
Volume
50 µl

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 Cytomety
- 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).
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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).