

DESCRIPTION

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| Species Reactivity | Human/Mouse/Rat |
| Specificity | Detects human, mouse, and rat PTPμ/PTPRM in Western blots. In Western blots, no cross-reactivity with recombinant human PTPRK, PTPRT, PTPRD, PTPRG, PTPRF (LAR), or DEP1 is observed. |
| Source | Monoclonal Mouse IgG _{2B} Clone # 436502 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | Mouse myeloma cell line NS0-derived recombinant human PTPμ/PTPRM Glu21-Lys742 Accession # P28827 |
| Conjugate | Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm |
| Formulation | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

Western Blot Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

Protein Tyrosine Phosphatase, receptor type M (PTPRM), also called PTPμ, PTPRμ, and RPTPμ, is expressed at highest levels in pulmonary vascular epithelia, where interactions with cadherins are believed to be important in regulating barrier permeability. The MAM and Fibronectin III (FNIII) domains on the extracellular side of PTPRM bind between cells, affecting adhesion and contact inhibition. Culturing cells to high density concentrates PTPRM at sites of tight contact and induces proteolytic cleavage of the 100 kDa extracellular domain.

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