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# Product datasheet for AM33020PU-N

## PTP rho (PTPRT) Mouse Monoclonal Antibody [Clone ID: 3D7]

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Clone Name:** | 3D7 |
| **Applications:** | FC, IF, IP, WB |
| **Recommended Dilution:** | **Western blot.**<br>**Immunoprecipitation.**<br>**Immunofluorescence.**<br>**Flow Cytometry.** |
| **Reactivity:** | Human, Porcine, Rat |
| **Host:** | Mouse |
| **Isotype:** | IgG2a |
| **Clonality:** | Monoclonal |
| **Immunogen:** | This antibody has been derived by fusion of SP2/0 mouse myeloma cells with spleen cells from a BALB/c mouse immunized with ExG protein, secreted by NIH-3T3 transfected cells and purified with glutahione beads.<br>The cells have been transfected using a fusion construct, termed ExG, encoding the entire ectodomain of the Human RPTPμ molecule (aa 1-742), fused COOH terminally to GST. |
| **Specificity:** | Monoclonal antibodies *3G4* and *3D7* have been directed against the extracellular domain of RPTPμ. |
| **Formulation:** | PBS<br>State: Purified<br>State: Liquid purified IgG fraction<br>Preservative: 0.09% Sodium Azide |
| **Concentration:** | lot specific |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing. |
| **Stability:** | Shelf life: one year from despatch. |
| **Gene Name:** | protein tyrosine phosphatase, receptor type T |

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**Database Link:** Entrez Gene 11122 Human
O14522

**Background:** Receptor-like protein tyrosine phosphatases (RPTPs) represent a new family of transmembrane proteins that are thought to transduce external signals by dephosphorylating phosphotyrosine residues on intracellular substrates. RPTPμ is a prototypic receptor-like protein-tyrosine phosphatase (RPTP) that mediates homotypic cell-cell interactions.
Intracellularly, RPTPμ consists of a relatively large juxtamembrane region (about 150 amino acids) and two conserved phosphatase domains. As in most RPTPs, the first (membrane-proximal) PTP domain of RPTPμ is catalytically active, whereas its second (C-terminal) domain is inactive. RPTPμ is involved in cell-cell adhesion through homophilic interactions and may also play a key role in signal transduction and growth control.

**Synonyms:** PTP rho, RPTP-rho, R-PTP-T, KIAA0283