

AM33020PU-N**Monoclonal Antibody to PTPRT - Purified****Alternate names:**

KIAA0283, KIAA0283, PTP rho, R-PTP-T, RPTP-rho, Receptor-type tyrosine-protein phosphatase T, Receptor-type tyrosine-protein phosphatase rho

Quantity:

0.1 mg

Concentration:

1.0 mg/ml

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. RPTP μ is a prototypic receptor-like protein-tyrosine phosphatase (RPTP) that mediates homotypic cell-cell interactions.

Intracellularly, RPTP μ 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 RPTP μ is catalytically active, whereas its second (C-terminal) domain is inactive. RPTP μ is involved in cell-cell adhesion through homophilic interactions and may also play a key role in signal transduction and growth control.

Uniprot ID:

[O14522](#)

NCBI:

[NP_008981.4](#)

GeneID:

[11122](#)

Host / Isotype:

Mouse / IgG2a

Recommended Isotype

AM03096PU-N

Controls:**Clone:**

3D7

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 glutathione beads.

The cells have been transfected using a fusion construct, termed ExG, encoding the entire ectodomain of the Human RPTP μ molecule (aa 1-742), fused COOH terminally to GST.

Format:

State: Liquid purified IgG fraction

Buffer System: PBS

Preservatives: 0.09% Sodium Azide

Applications:

Western blot.

Immunoprecipitation.

Immunofluorescence.

Flow Cytometry.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Specificity:	Monoclonal antibodies 3G4 and 3D7 have been directed against the extracellular domain of RPTP μ .
Species Reactivity:	Tested: Human, Rat, Swine.
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Gerben C. M. Zondag, Albert B. Reynolds§, and Wouter H. Moolenaar. THE JOURNAL OF BIOLOGICAL CHEMISTRY Vol. 275, No. 15, Issue of April 14, pp. 11264–11269, 2000.