

Goat Anti-PTPRT Antibody
Peptide-affinity purified goat antibody
Catalog # AF1884a**Specification**

Goat Anti-PTPRT Antibody - Product Information

Application	WB
Primary Accession	O14522
Other Accession	NP_008981 , 11122
Reactivity	Human
Predicted	Mouse
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	162134

Goat Anti-PTPRT Antibody - Additional Information**Gene ID** 11122**Other Names**

Receptor-type tyrosine-protein phosphatase T, R-PTP-T, 3.1.3.48, Receptor-type tyrosine-protein phosphatase rho, RPTP-rho, PTPRT, KIAA0283

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-PTPRT Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-PTPRT Antibody - Protein Information**Name** PTPRT**Synonyms** KIAA0283**Function**

May be involved in both signal transduction and cellular adhesion in the CNS.

Cellular Location

Membrane; Single-pass type I membrane protein.

Tissue Location

Expressed in colon, lung, heart and testis, as well as in fetal and adult brain. Not detected in muscle and peripheral blood leukocytes.

Goat Anti-PTPRT Antibody - 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](#)

Goat Anti-PTPRT Antibody - Images



AF1884a staining (0.3 µg/ml) of Human Brain lysate (RIPA buffer, 35 µg total protein per lane). Primary incubated for 1 hour. Detected by western blot using chemiluminescence.

Goat Anti-PTPRT Antibody - Background

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region, a single transmembrane region, and two tandem intracellular catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains a meprin-A5 antigen-PTP (MAM) domain, Ig-like and fibronectin type III-like repeats. The protein domain structure and the expression pattern of the mouse counterpart of this PTP suggest its roles in both signal transduction and cellular adhesion in the central nervous system. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported.

Goat Anti-PTPRT Antibody - References

Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success

genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614.

Human variation in alcohol response is influenced by variation in neuronal signaling genes. Joslyn G, et al. Alcohol Clin Exp Res, 2010 May. PMID 20201926.

Identification and functional characterization of paxillin as a target of protein tyrosine phosphatase receptor T. Zhao Y, et al. Proc Natl Acad Sci U S A, 2010 Feb 9. PMID 20133777.

Synapse formation regulated by protein tyrosine phosphatase receptor T through interaction with cell adhesion molecules and Fyn. Lim SH, et al. EMBO J, 2009 Nov 18. PMID 19816407.

Genetic mutations associated with cigarette smoking in pancreatic cancer. Blackford A, et al. Cancer Res, 2009 Apr 15. PMID 19351817.