



PTPRD Polyclonal Antibody

Catalog No	YP-Ab-06065
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	PTPRD
Immunogen	Synthesized peptide derived from human protein . at AA range: 510-590
Specificity	PTPRD Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	PTPD;Protein-tyrosine phosphatase delta;HPTPD;HPTP DELTA;HPTP;PTPRD; Receptor-type tyrosine-protein phosphatase delta (Protein-tyrosine phosphatase delta) (R-PTP-delta) (EC 3.1.3.48)
Observed Band	75 kDa, 175 kDa
Calculated Molecular Weight	1912 aa, 215 kDa
Cell Pathway	Membrane; Single-pass type I membrane protein.
Tissue Specificity	Brain,PCR rescued clones,Placenta,
Function	alternative products:Additional isoforms seem to exist,catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,PTM:A cleavage occurs, separating the extracellular domain from the transmembrane segment. This process called 'ectodomain shedding' is thought to be involved in receptor desensitization, signal transduction and/or membrane localization., similarity:Belongs to the protein-tyrosine phosphatase family. Receptor class 2A subfamily.,similarity:Contains 2 tyrosine-protein phosphatase domains., similarity:Contains 3 Ig-like C2-type (immunoglobulin-like) domains., similarity:Contains 8 fibronectin type-III domains.,subunit:Interacts with PPFIA1, PPFIA2 and PPFIA3.,

**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 contains an extracellular region, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this protein is composed of three Ig-like and eight fibronectin type III-like domains. Studies of the similar genes in chicken and fly suggest the role of this PTP is in promoting neurite growth, and regulating neurons axon guidance. Multiple alternatively spliced transcript variants of this gene have been reported. A related pseudogene has been identified on chromosome 5. [provided by RefSeq, Jan 2010],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images