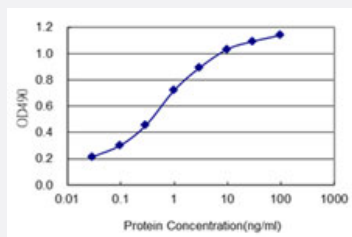


PTPRS monoclonal antibody (M01), clone 1H6

Catalog # H00005802-M01

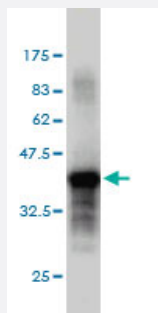
Size 100 ug

Applications



Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PTPRS is 0.03 ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.52 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant PTPRS.
Immunogen	PTPRS (AAH29496, 31 a.a. ~ 128 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	EPPRFIKEPKDQIGVSGGVASFVCQATGDPKPRVTWNKKGKKVNSQRFETIEFDESAGAVLRIQP LRTPRDENVYECVAQNSVGEITVHAKLTVLRGP
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence	Mouse (96)
Isotype	IgG2b kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.52 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PTPRS is 0.03 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

Gene Info — PTPRS

Entrez GeneID	5802
GeneBank Accession#	BC029496
Protein Accession#	AAH29496
Gene Name	PTPRS
Gene Alias	PTPSIGMA
Gene Description	protein tyrosine phosphatase, receptor type, S
Omim ID	601576
Gene Ontology	Hyperlink

Gene Summary

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 multiple Ig-like and fibronectin type III-like domains. Studies of the similar gene in mice suggested that this PTP may be involved in cell-cell interaction, primary axonogenesis, and axon guidance during embryogenesis. This PTP has been also implicated in the molecular control of adult nerve repair. Four alternatively spliced transcript variants, which encode distinct proteins, have been reported. [provided by RefSeq]

Other Designations

protein tyrosine phosphatase PTPsigma|protein tyrosine phosphatase, receptor type, sigma

Publication Reference

- [Synoviocyte-targeted therapy synergizes with TNF inhibition in arthritis reversal.](#)

Mattias N D Svensson, Martina Zoccheddu, Shen Yang, Gyrid Nygaard, Christian Secchi, Karen M Doody, Kamil Slowikowski, Fumitaka Mizoguchi, Frances Humby, Rebecca Hands, Eugenio Santelli, Cristiano Sacchetti, Kuninobu Wakabayashi, Dennis J Wu, Christopher Barback, Rizi Ai, Wei Wang, Gary P Sims, Piotr Mydel, Tsuyoshi Kasama, David L Boyle, Francesco Galimi, David Vera, Michel L Tremblay, Soumya Raychaudhuri, Michael B Brenner, Gary S Firestein, Costantino Pitzalis, Anna-Karin H Ekwall, Stephanie.

Science Advances 2020 Jun; 6(26):eaba4353.

Application: IF, Human, RA synovial tissue

- [Identification of function-regulating antibodies targeting the receptor protein tyrosine phosphatase sigma ectodomain.](#)

Wu CL, Hardy S, Aubry I, Landry M, Haggarty A, Saragovi HU, Tremblay ML.

PLoS One 2017 May; 12(5):e0178489.

Application: WB-Tr, Human, HEK 293T cells

Disease

- [Cell Transformation](#)
- [Colorectal Neoplasms](#)
- [Diabetes Mellitus](#)
- [Microsatellite Instability](#)