PTPalpha Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	PTPalpha, Polyclonal Antibody
Full Product Name	PTPalpha (Phospho Tyr798) Polyclonal Antibody
Product Gene Name	anti-PTPalpha antibody
Product Synonym Names	PTPRA; PTPA; PTPRL2; Receptor-type tyrosine-protein phosphatase alpha; Protein-tyrosine phosphatase alpha; R-PTP-alpha
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat, Monkey
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	Phospho-PTPalpha (Y798) Polyclonal Antibody detects endogenous levels of PTPalpha protein only when phosphorylated at Y798.
Preparation and Storage	Store at -20 degree C for 1 year
Molecular Weight	90,600 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (2844841..3019315). Location: 20p13
OMIM	176884
3D Structure	ModBase 3D Structure for P18433
Immunogen	The antiserum was produced against synthesized peptide derived from human PTPRA around the phosphorylation site of Tyr798. AA range:753-802
Product Categories/Family for anti-PTPalpha antibody	Primary Antibodies
Applications Tested/Suitable for anti-PTPalpha antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-PTPalpha antibody	WB: 1/500-1/2000 ELISA: 1/5000
Related Product Information for anti-PTPalpha antibody	protein tyrosine phosphatase, receptor type A (PTPRA), Homo sapiens. 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 domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. This PTP has been shown to dephosphorylate and activate Src family tyrosine kinases, and is implicated in the regulation of integrin signaling, cell adhesion and proliferation. Three alternatively spliced variants of this gene, which encode two distinct isoforms, have been reported. [provided by RefSeq, Jul 2008]
Other Notes	Small volumes of anti-PTPalpha antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for PTPalpha purchase	MBS9458764 is an antibody targeting PTPalpha. Also known as PTPalpha (Phospho Tyr798) Polyclonal Antibody. Reactive in Human, Mouse, Rat, Monkey. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PTPalpha. It may not necessarily be applicable to this product.

NCBI GI #	4506303
NCBI GeneID	5786
NCBI Accession #	NP_002827.1
UniProt Primary Accession #	P18433
UniProt Secondary Accession #	Q14513; Q7Z2I2; Q96TD9; A8K2G8; D3DVX5
UniProt Related Accession #	P18433
GenBank Nucleotide #	NM_002836.3
NCBI Official Full Name	receptor-type tyrosine-protein phosphatase alpha isoform 1
NCBI Official Synonym Full Names	protein tyrosine phosphatase, receptor type, A
NCBI Official Symbol	PTPRA
NCBI Official Synonym Symbols	LRP; HLPR; PTPA; HEPTP; HPTPA; RPTPA; PTPRL2; HPTPalpha; R-PTP-alpha
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase alpha
UniProt Gene Name	PTPRA
UniProt Synonym Gene Names	PTPA; PTPRL2; Protein-tyrosine phosphatase alpha; R-PTP-alpha
UniProt Entry Name	PTPRA_HUMAN
NCBI Protein Information	receptor-type tyrosine-protein phosphatase alpha; PTPase-alpha; PTPLCA-related phosphatase; tyrosine phosphatase alpha; protein-tyrosine phosphatase alpha; protein tyrosine phosphatase, receptor type, alpha polypeptide; Leukocyte common antigen-related pe
NCBI Summary for PTPalpha	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 domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. This PTP has been shown to dephosphorylate and activate Src family tyrosine kinases, and is implicated in the regulation of integrin signaling, cell adhesion and proliferation. Three alternatively spliced variants of this gene, which encode two distinct isoforms, have been reported. [provided by RefSeq, Jul 2008]
UniProt Comments for PTPalpha	PTPRA: a receptor protein tyrosine phosphatase (PTP). Contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains. Dephosphorylates and activates Src family tyrosine kinases, and is implicated in the regulation of integrin signaling, cell adhesion and proliferation. Four alternatively spliced isoforms have been reported. Protein type: Membrane protein, integral; EC 3.1.3.48; Receptor protein phosphatase, tyrosine; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 20p13 Cellular Component: integral to plasma membrane; plasma membrane; receptor complex Molecular Function: protein binding; transmembrane receptor protein tyrosine phosphatase activity; protein tyrosine phosphatase activity Biological Process: axon guidance; insulin receptor signaling pathway; protein amino acid phosphorylation
Research Articles on PTPalpha	**1.** The extracellular proteolytic processing is a novel mechanism for PTPalpha regulation.

Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-monkey-mouse-rat-antibody/ptpalpha/9458764