Active Recombinant Human PTPRA, GST-tagged

Cat. No. PTPRA-1521H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PTPRA (174-802) was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
ProteinLength	174-802 aa
Description	PTPRA (also known as LRP) is a member of the protein tyrosine phosphatase family and contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains. PTPRA dephosphorylates SRC family kinases, potassium channels and NMDA receptors and exists as three alternatively spliced variants which encode two distinct isoforms. Absence of PTPRA compromises correct positioning of pyramidal neurons during development of mouse hippocampus.
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Bio-activity	2117 nmol/min/mg
Molecular Mass	~96 kDa
Purity	>90%

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Applications	Phosphatase Assay, Western Blot
Storage	Store at–70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1μg/μl

GENE INFORMATION

Gene Name	PTPRA protein tyrosine phosphatase, receptor type, A [Homo sapiens]
Official Symbol	PTPRA
Synonyms	PTPRA; protein tyrosine phosphatase, receptor type, A; PTPA, PTPRL2; receptor-type tyrosine-protein phosphatase alpha; HLPR; HPTPA; LRP; RPTPA; PTPase-alpha; PTPLCA-related phosphatase; tyrosine phosphatase alpha; protein-tyrosine phosphatase alpha; protein tyrosine phosphatase, receptor type, alpha polypeptide; Leukocyte common antigen-related peptide (protein tyrosine phosphate); PTPA; HEPTP; PTPRL2; HPTPalpha; R-PTP-alpha;
Gene ID	5786
mRNA Refseq	NM_002836
Protein Refseq	NP_002827
MIM	176884
UniProt ID	P18433
Chromosome	20p13

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Location	
Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Insulin Pathway, organism-specific biosystem; NCAM signaling for neurite out-growth, organism-specific biosystem;
Function	hydrolase activity; protein tyrosine phosphatase activity; receptor activity; transmembrane receptor protein tyrosine phosphatase activity;

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