

Product datasheet for **CF501028**

PTP epsilon (PTPRE) Mouse Monoclonal Antibody [Clone ID: OTI4B2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI4B2
Applications:	FC, IF, IHC, WB
Recommended Dilution:	WB 1:1000, IHC 1:50, IF 1:100, FLOW 1:50
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Full length human recombinant protein of human PTPRE (NP_006495) produced in HEK293T cell.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	80.5 kDa
Gene Name:	Homo sapiens protein tyrosine phosphatase receptor type E (PTPRE), transcript variant 1, mRNA.
Database Link:	NP_006495 Entrez Gene 19267 Mouse Entrez Gene 114767 Rat Entrez Gene 5791 Human P23469



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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. Two alternatively spliced transcript variants of this gene have been reported, one of which encodes a receptor-type PTP that possesses a short extracellular domain, a single transmembrane region, and two tandem intracytoplasmic catalytic domains; Another one encodes a PTP that contains a distinct hydrophilic N-terminus, and thus represents a nonreceptor-type isoform of this PTP. Studies of the similar gene in mice suggested the regulatory roles of this PTP in RAS related signal transduction pathways, cytokines induced SATA signaling, as well as the activation of voltage-gated K⁺ channels. [provided by RefSeq, Jul 2008]

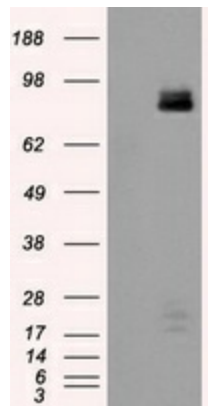
Synonyms:

HPTPE; PTPE; R-PTP-EPSILON

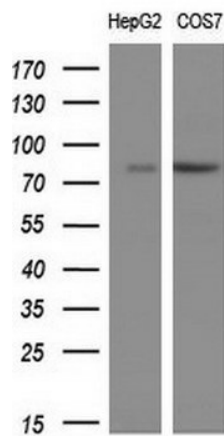
Protein Families:

Druggable Genome, Phosphatase, Transmembrane

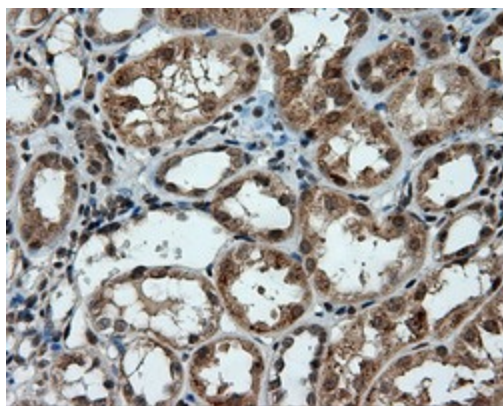
Product images:



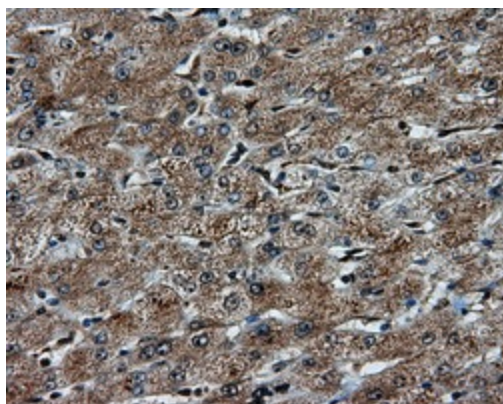
HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY PTPRE (Cat# [RC207950], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-PTPRE(Cat# [TA501028]). Positive lysates [LY401950] (100ug) and [LC401950] (20ug) can be purchased separately from OriGene.



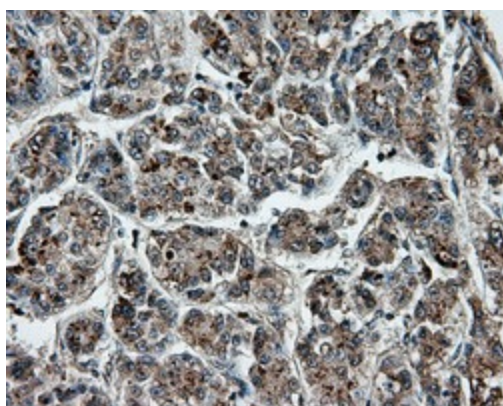
Western blot analysis of extracts (10ug) from 2 different cell lines by using anti-PTPRE monoclonal antibody at 1:200 dilution.



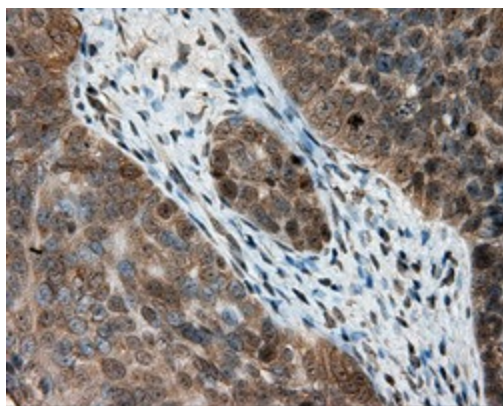
Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-PTPRE mouse monoclonal antibody. ([TA501028]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



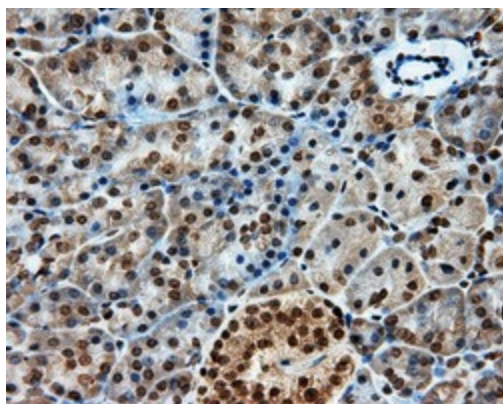
Immunohistochemical staining of paraffin-embedded Human liver tissue within the normal limits using anti-PTPRE mouse monoclonal antibody. ([TA501028]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



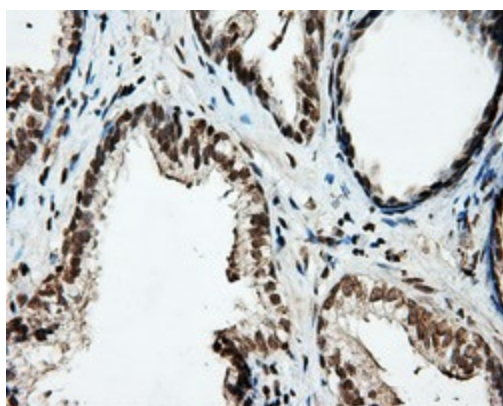
Immunohistochemical staining of paraffin-embedded Carcinoma of Human liver tissue using anti-PTPRE mouse monoclonal antibody. ([TA501028]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



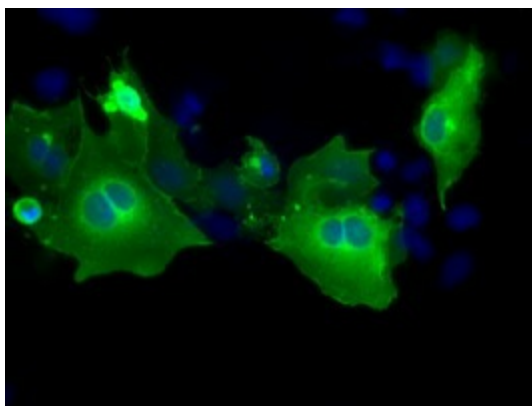
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human ovary tissue using anti-PTPRE mouse monoclonal antibody. ([TA501028]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



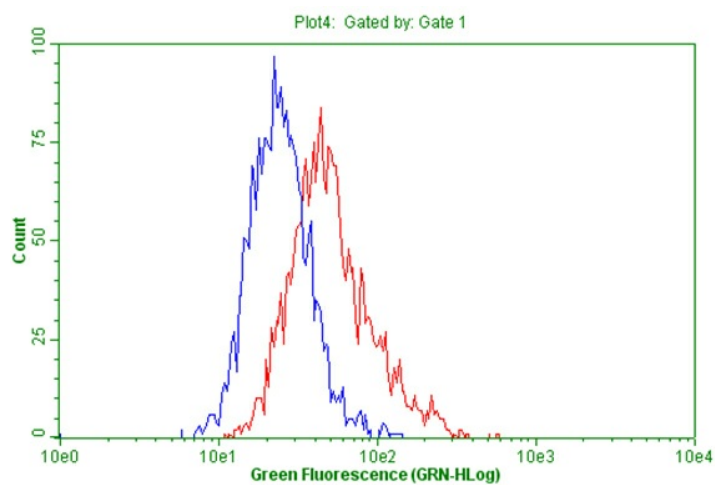
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-PTPRE mouse monoclonal antibody. ([TA501028]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-PTPRE mouse monoclonal antibody. ([TA501028]; heat-induced epitope retrieval by 1mM EDTA in 10mM Tris, pH8.5, 120°C for 3min)



Anti-PTPRE mouse monoclonal antibody ([TA501028]) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY PTPRE ([RC207950]).



Flow cytometric Analysis of living Malme-3M cells, using anti-PTPRE antibody ([TA501028]), (Red), compared to PBS, (Blue).