



# Anti-PTPRE (aa 511-600) polyclonal antibody (DPAB-DC2619)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Antigen Description</b>	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 <sup>+</sup> channels.
<b>Immunogen</b>	PTPRE (AAH50062, 511 a.a. ~ 600 a.a) partial recombinant protein with GST tag. The sequence is WRMIWEWKSHSTIVMLTEVQEREQDKCYQYWPTEGSVTHGEITIEIKNDTLSEAISIRDFL VTLNQPQARQEEQVRVVRQFHFHGWPEIGI
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Human
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB (Cell lysate), WB (Recombinant protein), ELISA,
<b>Size</b>	50 µl
<b>Buffer</b>	50 % glycerol
<b>Preservative</b>	None

**Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## GENE INFORMATION

Gene Name	<a href="#">PTPRE protein tyrosine phosphatase, receptor type, E [ Homo sapiens (human) ]</a>
Official Symbol	PTPRE
Synonyms	PTPRE; protein tyrosine phosphatase, receptor type, E; PTPE; HPTPE; R-PTP-EPSILON; receptor-type tyrosine-protein phosphatase epsilon; protein tyrosine phosphatase, receptor type, epsilon polypeptide;
Entrez Gene ID	<a href="#">5791</a>
Protein Refseq	<a href="#">NP_006495</a>
UniProt ID	<a href="#">P23469</a>
Chromosome Location	10q26
Function	protein binding; protein homodimerization activity; transmembrane receptor protein tyrosine phosphatase activity;