



Rabbit Anti-PTP zeta antibody

SL11327R

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| Product Name: | PTP zeta |
| Chinese Name: | 磷酸蛋白聚糖PTPRZ抗体 |
| Alias: | Phosphacan; 3F8 chondroitin sulfate proteoglycan; 3H1 keratan sulfate proteoglycan; HPTPZ; HPTPzeta; Phosphacan; Protein tyrosine phosphatase receptor type Z polypeptide 2; Protein tyrosine phosphatase, receptor type, Z polypeptide 1; Protein tyrosine phosphatase, receptor type, zeta polypeptide 1; PTP-ZETA; PTP18; PTPRZ; PTPRZ1; PTPZ; R PTP zeta 2; R-PTP-zeta; Receptor type tyrosine phosphatase beta/zeta; Receptor-type tyrosine-protein phosphatase zeta; RPTP-BETA; RPTPB; RPTPbeta; PTPRZ HUMAN. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat, |
| Applications: | ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 251kDa |
| Cellular localization: | The cell membrane |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human Phosphacan:421-520/2315<Extracellular> |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed: | PubMed |
| Product Detail: | PTP zeta (receptor-type protein tyrosine phosphatase zeta) is a type I membrane protein |

chondroitin sulfate proteoglycan with a transmembrane domain and intracellular tyrosine phosphatase domains. PTP zeta may be involved in the regulation of specific developmental processes in the CNS. PTP zeta is developmentally regulated in the brain and specifically expressed in the central nervous system, where it is localized in the Purkinje cell layer of the cerebellum, the dentate gyrus, and the subependymal layer of the anterior horn of the lateral ventricle. PTP zeta belongs to the protein-tyrosine phosphatase family and contains 1 eukaryotic-type carbonic anhydrase domain, 1 fibronectin type III domain and 2 tyrosine-protein phosphatase domains.

Function:

May be involved in the regulation of specific developmental processes in the CNS.

Subunit:

The carbonic-anhydrase like domain binds to contactin (By similarity).

Subcellular Location:

Membrane; Single-pass type I membrane protein.

Tissue Specificity:

Specifically expressed in the central nervous system, where it is localized in the Purkinje cell layer of the cerebellum, the dentate gyrus, and the subependymal layer of the anterior horn of the lateral ventricle. Developmentally regulated in the brain.

Similarity:

Belongs to the protein-tyrosine phosphatase family. Receptor class 5 subfamily.

Contains 1 alpha-carbonic anhydrase domain.

Contains 1 fibronectin type-III domain.

Contains 2 tyrosine-protein phosphatase domains.

SWISS:

P23471

Gene ID:

5803

Database links:

[Entrez Gene: 5803](#) Human

[Entrez Gene: 19283](#) Mouse

[Entrez Gene: 25613](#) Rat

[Omim: 176891](#) Human

[SwissProt: P23471](#) Human

[SwissProt: Q62656](#) Rat

[Unigene: 489824](#) Human

[Unigene: 10088](#) Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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