



## Rabbit Anti-PTPD2 antibody

SL8692R

<b>Product Name:</b>	PTPD2
<b>Chinese Name:</b>	Cytoskeleton相关蛋白酪氨酸磷酸酶2抗体
<b>Alias:</b>	Cytoskeletal associated protein tyrosine phosphatase; MGC126803; PEZ; Phosphatase with ezrin domain; Protein tyrosine phosphatase non receptor type 14; Protein tyrosine phosphatase pez; Protein-tyrosine phosphatase pez; PTN14_HUMAN; PTP 36; PTP36; PTPD 2; PTPN 14; PTPN14; Tyrosine protein phosphatase non receptor type 14; Tyrosine-protein phosphatase non-receptor type 14.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit,Sheep,
<b>Applications:</b>	ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	135kDa
<b>Cellular localization:</b>	cytoplasmic
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from human PTPD2:951-1029/1029
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 0.01M PBS, pH 7.4
<b>Storage:</b>	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.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</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. This PTP contains an N-terminal noncatalytic domain similar to that of band 4.1 superfamily cytoskeleton-associated proteins, which suggested the membrane or cytoskeleton localization of this protein. It appears to regulate lymphatic development in mammals, and a loss of function mutation has been found in a kindred with a lymphedema-choanal atresia. [provided by RefSeq, Sep 2010]

**Function:**

Protein tyrosine phosphatase which may play a role in the regulation of lymphangiogenesis.

**Subcellular Location:**

Cytoplasm > cytoskeleton.

**Tissue Specificity:**

Expressed in a variety of human tissues including kidney, skeletal muscle, lung and placenta.

**Post-translational modifications:**

Phosphorylated upon DNA damage, probably by ATM or ATR.

**DISEASE:**

Defects in PTPN14 are a cause of choanal atresia and lymphedema (CHATLY) [MIM:613611]. A disease characterized by posterior choanal atresia and lymphedema. Additional features are a high-arched palate, hypoplastic nipples, and mild pectus excavatum. Note=A homozygous deletion in PTPN14 predicted to result in frameshift and premature truncation, has been shown to be the cause of choanal atresia and lymphedema in one family.

**Similarity:**

Belongs to the protein-tyrosine phosphatase family.

Non-receptor class subfamily.

Contains 1 FERM domain.

Contains 1 tyrosine-protein phosphatase domain.

**SWISS:**

Q15678

**Gene ID:**

5784

**Database links:**

[Entrez Gene: 5784](#) Human

[Omim: 603155](#) Human

[SwissProt: Q15678](#) Human

[Unigene: 193557](#) Human

**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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