

**PTPN14 Antibody (C-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP14810b**

### Specification

#### PTPN14 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	<a href="#">Q15678</a>
Other Accession	<a href="#">NP_005392.2</a>
Reactivity	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	135261
Antigen Region	862-890

#### PTPN14 Antibody (C-term) - Additional Information

**Gene ID** 5784

#### Other Names

Tyrosine-protein phosphatase non-receptor type 14, Protein-tyrosine phosphatase pez, PTPN14, PEZ, PTPD2

#### Target/Specificity

This PTPN14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 862-890 amino acids from the C-terminal region of human PTPN14.

#### Dilution

WB~1:1000

#### Format

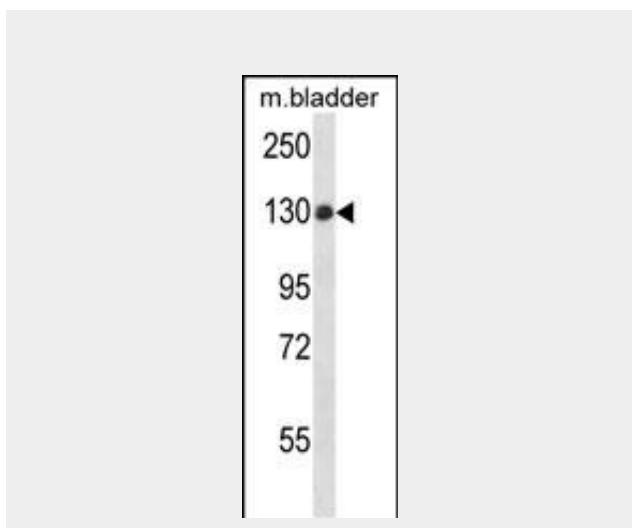
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

#### Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

#### Precautions

PTPN14 Antibody (C-term) is for research



PTPN14 Antibody (C-term) (Cat. #AP14810b) western blot analysis in mouse bladder tissue lysates (35ug/lane). This demonstrates the PTPN14 antibody detected the PTPN14 protein (arrow).

#### PTPN14 Antibody (C-term) - 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. 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.

#### PTPN14 Antibody (C-term) - References

use only and not for use in diagnostic or therapeutic procedures.

#### **PTPN14 Antibody (C-term) - Protein Information**

**Name** PTPN14

**Synonyms** PEZ, PTPD2

Au, A.C., et al. Am. J. Hum. Genet. 87(3):436-444(2010)  
Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :  
Wyatt, L., et al. Cell Cycle 7(15):2290-2295(2008)  
Matsuoka, S., et al. Science 316(5828):1160-1166(2007)  
Olsen, J.V., et al. Cell 127(3):635-648(2006)

#### **Function**

Protein tyrosine phosphatase which may play a role in the regulation of lymphangiogenesis, cell-cell adhesion, cell-matrix adhesion, cell migration, cell growth and also regulates TGF-beta gene expression, thereby modulating epithelial-mesenchymal transition. Mediates beta-catenin dephosphorylation at adhesion junctions. Acts as a negative regulator of the oncogenic property of YAP, a downstream target of the hippo pathway, in a cell density-dependent manner. May function as a tumor suppressor.

#### **Cellular Location**

Cytoplasm. Cytoplasm, cytoskeleton. Nucleus. Note=Translocation into the nucleus is associated with induction of cell proliferation. Partially colocalized with actin filaments at the plasma membrane

#### **Tissue Location**

Ubiquitous.

#### **PTPN14 Antibody (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)