

# PTP epsilon Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP8416a

## Product Information

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<b>Application</b>	WB, E
<b>Primary Accession</b>	<a href="#">P23469</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB0551
<b>Calculated MW</b>	80642
<b>Antigen Region</b>	558-589

## Additional Information

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<b>Gene ID</b>	5791
<b>Other Names</b>	Receptor-type tyrosine-protein phosphatase epsilon, Protein-tyrosine phosphatase epsilon, R-PTP-epsilon, PTPRE
<b>Target/Specificity</b>	This PTP epsilon antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 558-589 amino acids from the C-terminal region of human PTP epsilon.
<b>Dilution</b>	WB~~1:1000 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
<b>Storage</b>	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.
<b>Precautions</b>	PTP epsilon Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	PTPRE
<b>Function</b>	Isoform 1 plays a critical role in signaling transduction pathways and phosphoprotein network topology in red blood cells. May play a role in osteoclast formation and function (By similarity).

<b>Cellular Location</b>	[Isoform 1]: Cell membrane; Single-pass type I membrane protein [Isoform 3]: Cytoplasm.
<b>Tissue Location</b>	Expressed in giant cell tumor (osteoclastoma rich in multinucleated osteoclastic cells).

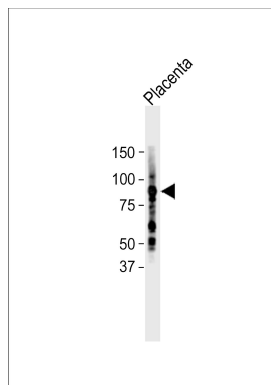
## Background

PTPepsilon 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 the 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.

## References

Toledano-Katchalski, H., et al., Mol. Cell. Biol. 23(15):5460-5471 (2003).  
 Blanchetot, C., et al., J. Biol. Chem. 277(49):47263-47269 (2002).  
 Wabakken, T., et al., Scand. J. Immunol. 56(3):276-285 (2002).  
 Wabakken, T., et al., Scand. J. Immunol. 56(2):195-203 (2002).  
 Tanuma, N., et al., J. Biol. Chem. 275(36):28216-28221 (2000).

## Images



All lanes: Anti-PTP epsilon Antibody (C-term) at 1:1000 dilution + Placenta lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 80 KDa Blocking/Dilution buffer: 5% NFDm/TBST.

## Citations

- [Apoptosis of estrogen-receptor negative breast cancer and colon cancer cell lines by PTP alpha and src RNAi.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.