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# ENPP3 / CD203c Antibody (C-Terminus)

**Rabbit Polyclonal Antibody**
**Catalog # ALS11173**

## Specification

### ENPP3 / CD203c Antibody (C-Terminus) - Product Information

| | |
|---|---|
| Application | **IHC-P** |
| Primary Accession | O14638 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Calculated MW | **100kDa KDa** |
| Dilution | **IHC-P~~N/A** |

### ENPP3 / CD203c Antibody (C-Terminus) - Additional Information

**Gene ID** 5169

**Other Names**
Ectonucleotide pyrophosphatase/phosphodiesterase family member 3, E-NPP 3, Phosphodiesterase I beta, PD-Ibeta, Phosphodiesterase I/nucleotide pyrophosphatase 3, CD203c, Alkaline phosphodiesterase I, 3.1.4.1, Nucleotide pyrophosphatase, NPPase, 3.6.1.9, ENPP3, PDNP3

**Target/Specificity**
Human ENPP3. BLAST analysis of the peptide immunogen showed no homology with other human proteins.

**Reconstitution & Storage**
Long term: -70°C; Short term: +4°C

**Precautions**
ENPP3 / CD203c Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

### ENPP3 / CD203c Antibody (C-Terminus) - Protein Information

**Name** ENPP3 (HGNC:3358)

**Function**
Hydrolase that metabolizes extracellular nucleotides, including ATP, GTP, UTP and CTP (PubMed:<a href="http://www.uniprot.org/citations/29717535" target="_blank">29717535</a>, PubMed:<a href="http://www.uniprot.org/citations/9344668" target="_blank">9344668</a>). Limits mast cells and basophils response during inflammation and during the chronic phases of allergic responses by eliminating extracellular ATP, a signaling molecule activating these cells in an autocrine manner. Metabolizes extracellular ATP in the lumen of the small intestine, and thereby prevents ATP-induced apoptosis of intestinal plasmacytoid dendritic cells (By similarity). Has a broad specificity and can also hydrolyze UDP-GlcNAc into UMP and GlcNAc-1-phosphate and potentially several other intracellular nucleotide sugars, including UDP-GalNAc, CMP-NeuAc,

GDP-Fuc, and UDP-GlcA. Thereby, could modulate glycan biosynthesis and protein glycosylation (By similarity). Can hydrolyze extracellular dinucleoside polyphosphates, including the vasoactive adenosine polyphosphates as well (PubMed:<a href="http://www.uniprot.org/citations/12846830" target="_blank">12846830</a>). In addition, displays an alkaline phosphodiesterase activity in vitro (PubMed:<a href="http://www.uniprot.org/citations/11342463" target="_blank">11342463</a>).

**Cellular Location**
Cell membrane; Single-pass type II membrane protein. Apical cell membrane; Single-pass type II membrane protein. Secreted Note=Detected at the cell surface of basophils (PubMed:11342463) Detected at the apical plasma membrane of bile duct cells (PubMed:15072822). Located to the apical surface in intestinal and kidney epithelial cells. Secreted in serum, and in lumen of epithelial cells.

**Tissue Location**
Detected on bile ducts in liver, and in blood serum (at protein level) (PubMed:15072822). Detected in prostate and uterus (PubMed:9344668). Detected on basophils, but not neutrophils (PubMed:11342463).

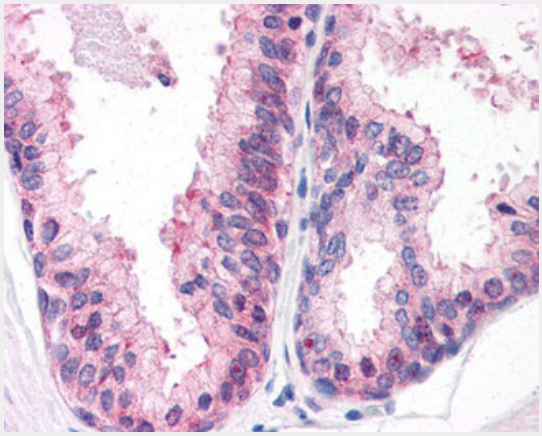
**Volume**
50 µl

## ENPP3 / CD203c Antibody (C-Terminus) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## ENPP3 / CD203c Antibody (C-Terminus) - Images



Anti-ENPP3 antibody ALS11173 IHC of human prostate.

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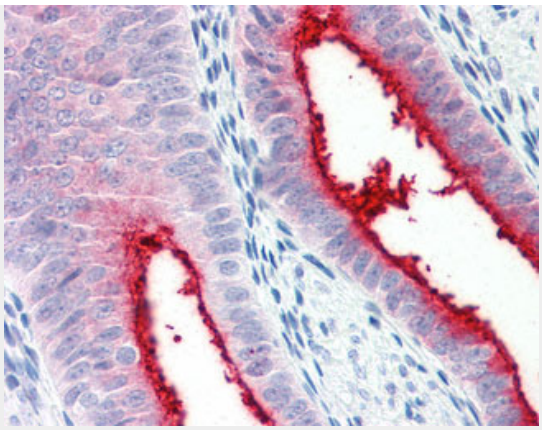

Anti-ENPP3 antibody ALS11173 IHC of human uterus.

**ENPP3 / CD203c Antibody (C-Terminus) - Background**

Cleaves a variety of phosphodiester and phosphosulfate bonds including deoxynucleotides, nucleotide sugars, and NAD.

**ENPP3 / CD203c Antibody (C-Terminus) - References**

Piao J.-H.,et al.Genomics 45:412-415(1997).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Mungall A.J.,et al.Nature 425:805-811(2003).
Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.
Buehring H.J.,et al.Blood 97:3303-3305(2001).