

**ENPP3 / CD203c Antibody (Internal)**  
**Rabbit Polyclonal Antibody**  
**Catalog # ALS11172****Specification**

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**ENPP3 / CD203c Antibody (Internal) - Product Information**

Application	IHC-P
Primary Accession	<a href="#">O14638</a>
Reactivity	Human, Monkey, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	100kDa KDa
Dilution	IHC-P~~N/A

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

**ENPP3 / CD203c Antibody (Internal) - 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**

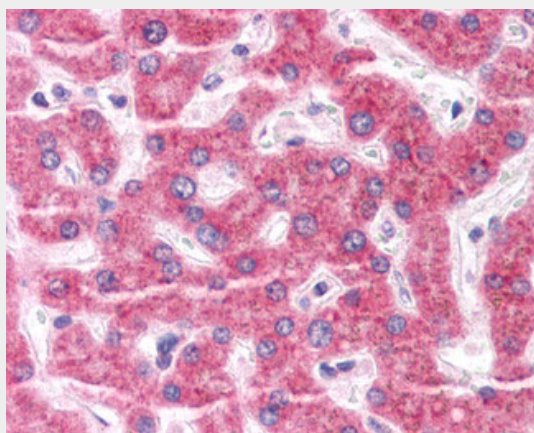
50 µl

### **ENPP3 / CD203c Antibody (Internal) - Protocols**

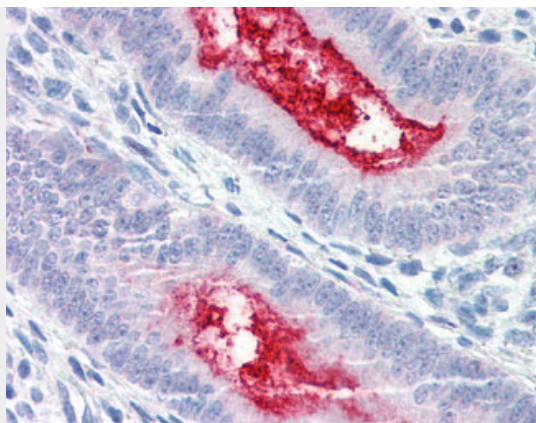
Provided below are standard protocols that you may find useful for product applications.

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

### **ENPP3 / CD203c Antibody (Internal) - Images**



Anti-ENPP3 antibody ALS11172 IHC of human liver.



Anti-ENPP3 antibody ALS11172 IHC of human uterus.

#### **ENPP3 / CD203c Antibody (Internal) - Background**

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

#### **ENPP3 / CD203c Antibody (Internal) - 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).