

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

ENPP3 / CD203c Antibody (Internal) - Product Information

Application	IHC
Primary Accession	O14638
Reactivity	Human, Monkey, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	100kDa KDa

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:29717535, PubMed:9344668). 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:12846830). In addition, displays an alkaline phosphodiesterase activity in vitro (PubMed:11342463).

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

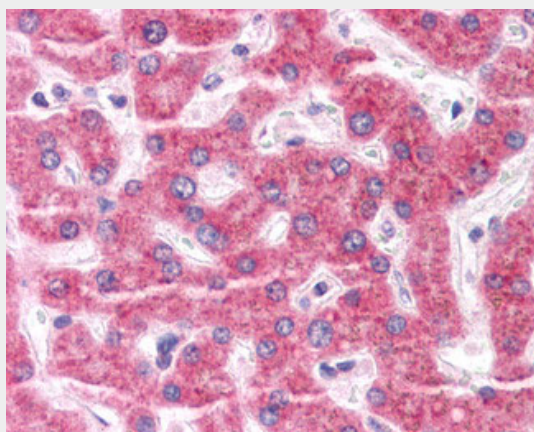
50 µl

ENPP3 / CD203c Antibody (Internal) - Protocols

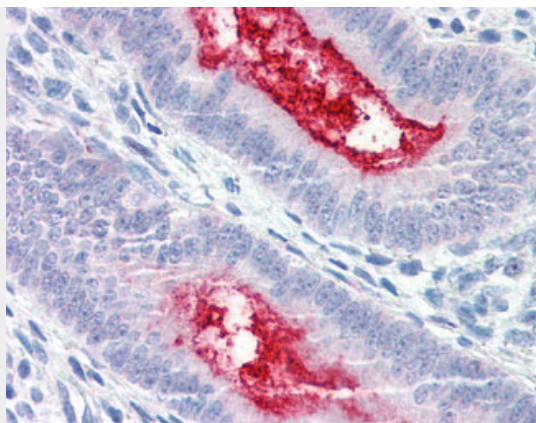
Provided below are standard protocols that you may find useful for product applications.

- [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).