

**ENPP2 / Autotaxin Antibody (aa698-712)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS16150****Specification**

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**ENPP2 / Autotaxin Antibody (aa698-712) - Product Information**

Application	<b>WB, IHC</b>
Primary Accession	<a href="#">O13822</a>
Reactivity	<b>Human, Monkey</b>
Host	<b>Goat</b>
Clonality	<b>Polyclonal</b>
Calculated MW	<b>99kDa KDa</b>

**ENPP2 / Autotaxin Antibody (aa698-712) - Additional Information****Gene ID** 5168**Other Names**

Ectonucleotide pyrophosphatase/phosphodiesterase family member 2, E-NPP 2, 3.1.4.39, Autotaxin, Extracellular lysophospholipase D, LysoPLD, ENPP2, ATX, PDNP2

**Target/Specificity**

Human ENPP2 / Autotaxin. This antibody is expected to recognize all reported isoforms (NP\_006200.3; NP\_001035181.1, NP\_001124335.1).

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

ENPP2 / Autotaxin Antibody (aa698-712) is for research use only and not for use in diagnostic or therapeutic procedures.

**ENPP2 / Autotaxin Antibody (aa698-712) - Protein Information****Name** ENPP2 ([HGNC:3357](#))**Function**Secreted lysophospholipase D that hydrolyzes lysophospholipids to produce the signaling molecule lysophosphatidic acid (LPA) in extracellular fluids (PubMed:[12354767](http://www.uniprot.org/citations/12354767), PubMed:[14500380](http://www.uniprot.org/citations/14500380), PubMed:[15769751](http://www.uniprot.org/citations/15769751), PubMed:[26371182](http://www.uniprot.org/citations/26371182), PubMed:[27754931](http://www.uniprot.org/citations/27754931)). Its major substrate is lysophosphatidylcholine (PubMed:[12176993](http://www.uniprot.org/citations/12176993), PubMed:[14500380](http://www.uniprot.org/citations/14500380), PubMed:[27754931](http://www.uniprot.org/citations/27754931)). Can also act

on sphingosylphosphorylcholine producing sphingosine-1-phosphate, a modulator of cell motility (PubMed:<a href="http://www.uniprot.org/citations/14500380" target="\_blank">14500380</a>). Can hydrolyze, in vitro, bis-pNPP, to some extent pNP-TMP, and barely ATP (PubMed:<a href="http://www.uniprot.org/citations/12176993" target="\_blank">12176993</a>, PubMed:<a href="http://www.uniprot.org/citations/15769751" target="\_blank">15769751</a>). Involved in several motility-related processes such as angiogenesis and neurite outgrowth. Acts as an angiogenic factor by stimulating migration of smooth muscle cells and microtubule formation (PubMed:<a href="http://www.uniprot.org/citations/11559573" target="\_blank">11559573</a>). Stimulates migration of melanoma cells, probably via a pertussis toxin- sensitive G protein (PubMed:<a href="http://www.uniprot.org/citations/1733949" target="\_blank">1733949</a>). May have a role in induction of parturition (PubMed:<a href="http://www.uniprot.org/citations/12176993" target="\_blank">12176993</a>). Possible involvement in cell proliferation and adipose tissue development (Probable). Required for LPA production in activated platelets, cleaves the sn-1 lysophospholipids to generate sn-1 lysophosphatidic acids containing predominantly 18:2 and 20:4 fatty acids (PubMed:<a href="http://www.uniprot.org/citations/21393252" target="\_blank">21393252</a>). Shows a preference for the sn-1 to the sn-2 isomer of 1-O-alkyl-sn-glycero-3- phosphocholine (lyso-PAF) (PubMed:<a href="http://www.uniprot.org/citations/21393252" target="\_blank">21393252</a>).

### Cellular Location

Secreted

### Tissue Location

Detected in blood plasma (at protein level) (PubMed:12176993, PubMed:26371182). Predominantly expressed in brain, placenta, ovary, and small intestine. Expressed in a number of carcinomas such as hepatocellular and prostate carcinoma, neuroblastoma and non-small-cell lung cancer. Expressed in body fluids such as plasma, cerebral spinal fluid (CSF), saliva, follicular and amniotic fluids. Not detected in leukocytes. Isoform 1 is more highly expressed in peripheral tissues than in the central nervous system (CNS) Adipocytes only express isoform 1. Isoform 3 is more highly expressed in the brain than in peripheral tissues.

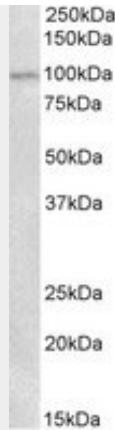
## ENPP2 / Autotaxin Antibody (aa698-712) - Protocols

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

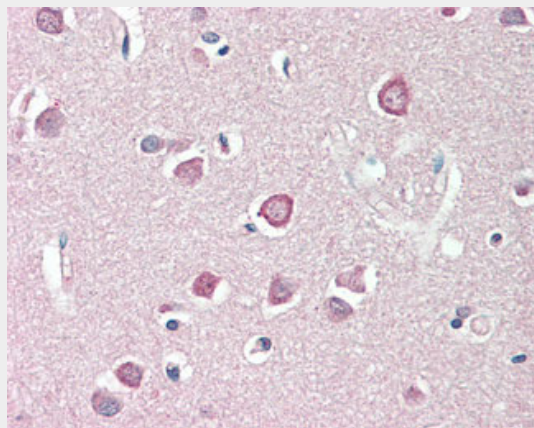
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## ENPP2 / Autotaxin Antibody (aa698-712) - Images

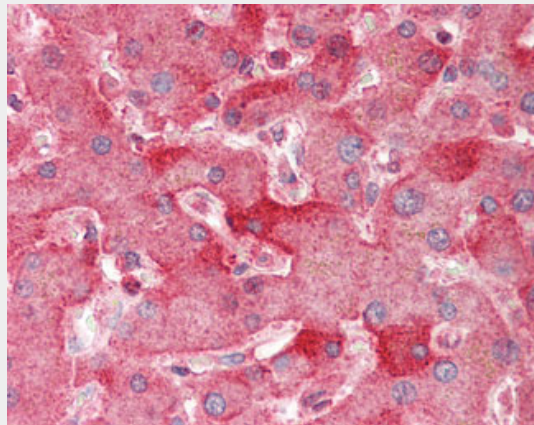




ENPP2 antibody (0.3 ug/ml) staining of Human Placenta lysate (35 ug protein in RIPA buffer).



Anti-ENPP2 / Autotaxin antibody IHC staining of human brain, cortex.



Anti-ENPP2 / Autotaxin antibody IHC staining of human liver.

### **ENPP2 / Autotaxin Antibody (aa698-712) - Background**

Hydrolyzes lysophospholipids to produce lysophosphatidic acid (LPA) in extracellular fluids. Major substrate is lysophosphatidylcholine. Also can act on sphingosylphosphorylcholine producing sphingosine-1-phosphate, a modulator of cell motility. Can hydrolyze, in vitro, bis-pNPP, to some extent pNP-TMP, and barely ATP. Involved in several motility-related processes such as angiogenesis and neurite outgrowth. Acts as an angiogenic factor by stimulating migration of smooth muscle cells and microtubule formation. Stimulates migration of melanoma cells, probably via a pertussis toxin-sensitive G protein. May have a role in induction of parturition. Possible involvement in cell proliferation and adipose tissue development. Tumor cell motility-stimulating

factor.

### **ENPP2 / Autotaxin Antibody (aa698-712) - References**

- Murata J., et al. J. Biol. Chem. 269:30479-30484(1994).  
Kawagoe H., et al. Genomics 30:380-384(1995).  
Lee H.Y., et al. Biochem. Biophys. Res. Commun. 218:714-719(1996).  
van Meeteren L.A., et al. J. Biol. Chem. 280:21155-21161(2005).  
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