

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

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

Application	WB, IHC
Primary Accession	O13822
Reactivity	Human, Monkey
Host	Goat
Clonality	Polyclonal
Calculated MW	99kDa KDa

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**Function**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)). 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:14500380). Can hydrolyze, in vitro, bis-pNPP, to some extent pNP-TMP, and barely ATP (PubMed:12176993, PubMed:15769751). 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:11559573). Stimulates migration of melanoma cells, probably via a pertussis toxin-sensitive G protein (PubMed:1733949). May have a role in induction of parturition (PubMed:12176993). Possible involvement in cell proliferation and adipose tissue development (Probable). Tumor cell motility-stimulating factor (PubMed:11559573, PubMed:1733949). 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:21393252). Shows a preference for the sn-1 to the sn-2 isomer of 1-O-alkyl-sn-glycero-3- phosphocholine (lyso-PAF) (PubMed:21393252).

Cellular Location

Secreted

Tissue Location

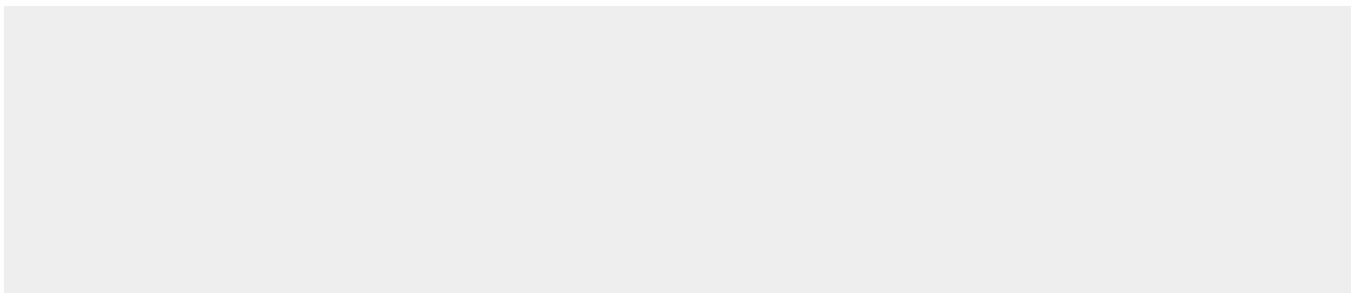
Detected in blood plasma (at protein level) (PubMed:12176993, PubMed:26371182). Predominantly expressed in brain, placenta, ovary, and small intestine. Expressed in a number of carcinomas such as hepatocellular and prostate carcinoma, neuroblastoma and non-small-cell lung cancer. Expressed in body fluids 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.

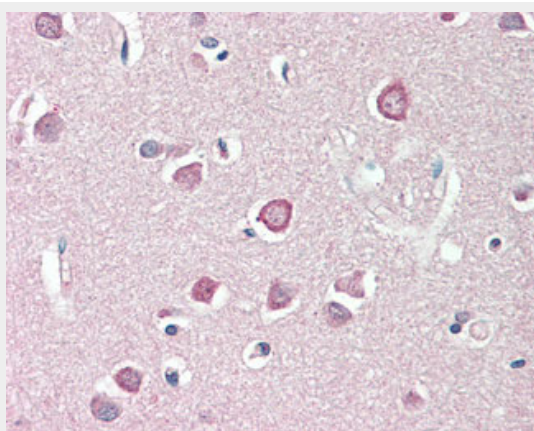
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ENPP2 / Autotaxin Antibody (aa698-712) - Images

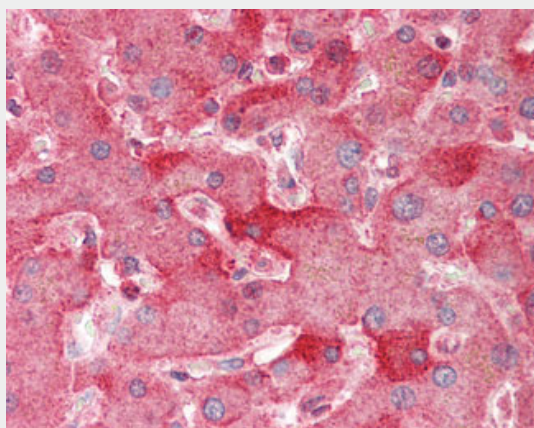




ENPP2 antibody (0.3 ug/ml) staining of Human Placenta lysate (35 ug protein in RIPA buffer).



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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