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ENPP2 / Autotaxin Antibody (aa698-712)

Goat Polyclonal Antibody
Catalog # ALS16150

Specification

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

Application	**WB, IHC-P, E**
Primary Accession	Q13822
Reactivity	**Human, Monkey**
Host	**Goat**
Clonality	**Polyclonal**
Calculated MW	**99kDa KDa**
Dilution	**WB~~1:1000** **IHC-P~~N/A** **E~~N/A**

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, PubMed:14500380, PubMed:15769751, PubMed:26371182, PubMed:27754931). Its major substrate is lysophosphatidylcholine (PubMed:<a

href="http://www.uniprot.org/citations/12176993" target="_blank">12176993, PubMed:14500380, PubMed: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). 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.

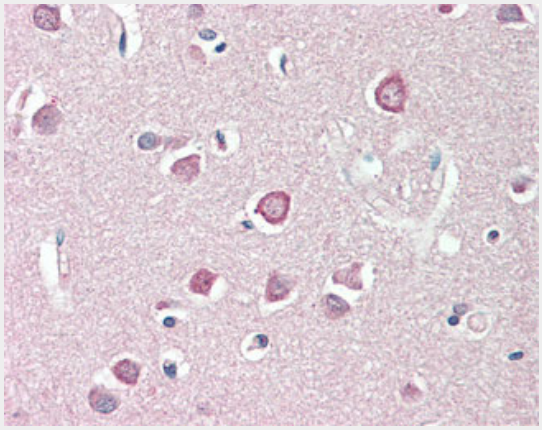
ENPP2 / Autotaxin Antibody (aa698-712) - Protocols

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

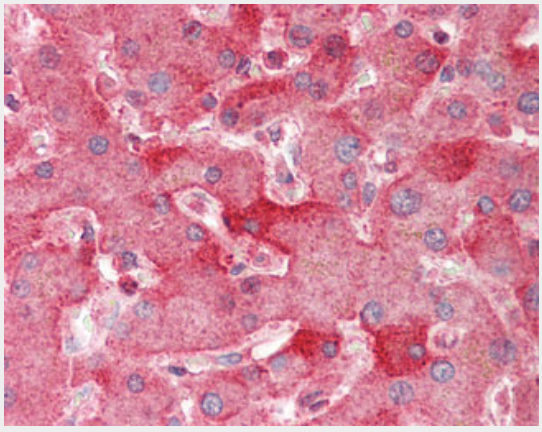
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

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 sphingosylphosphphorylcholine 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

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