

Autotaxin Polyclonal Antibody

Catalog # AP73542

Specification

Autotaxin Polyclonal Antibody - Product Information

Application WB
Primary Accession 013822

Reactivity Human, Mouse,

Rat

Host Rabbit Clonality Polyclonal

Autotaxin Polyclonal Antibody - Additional Information

Gene ID 5168

Other Names

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

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/20000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

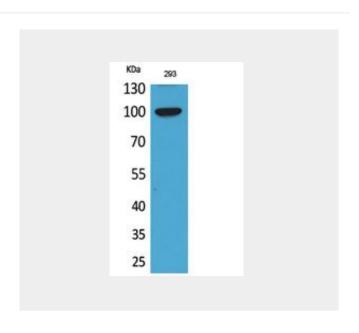
Storage Conditions -20°C

Autotaxin Polyclonal Antibody - Protein Information

Name ENPP2

Function

Hydrolyzes lysophospholipids to produce the signaling molecule lysophosphatidic acid (LPA) in extracellular fluids (PubMed:15769751, PubMed:<a href="http://www.uniprot.org/ci tations/26371182"



Autotaxin Polyclonal Antibody - Background

Hydrolyzes lysophospholipids to produce the signaling molecule lysophosphatidic acid (LPA) in extracellular fluids (PubMed:15769751, PubMed:26371182, PubMed:27754931). Major substrate is lysophosphatidylcholine (PubMed:12176993, PubMed:27754931). 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 (PubMed:15769751, PubMed:12176993). 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:1733949, PubMed:11559573).





target="_blank">26371182,

PubMed:<a href="http://www.uniprot.org/ci

tations/27754931"

target="_blank">27754931,

PubMed:<a href="http://www.uniprot.org/ci

tations/14500380"

target="_blank">14500380,

PubMed:<a href="http://www.uniprot.org/ci tations/12354767"

target="_blank">12354767,). Major substrate is lysophosphatidylcholine

(PubMed:<a href="http://www.uniprot.org/c itations/12176993"

target=" blank">12176993,

PubMed:<a href="http://www.uniprot.org/ci tations/27754931"

target=" blank">27754931,

PubMed:<a href="http://www.uniprot.org/ci tations/14500380"

target="_blank">14500380). Also can 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:15769751,

PubMed:12176993). 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:<a href="http://www.uniprot.org/citations/1733949"

target="_blank">1733949). May have a role in induction of parturition

(PubMed:<a href="http://www.uniprot.org/c itations/12176993"

target="_blank">12176993). Possible involvement in cell proliferation and adipose tissue development (Probable).

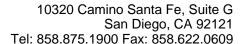
Tumor cell motility-stimulating factor

(PubMed:<a href="http://www.uniprot.org/c itations/1733949"

target="_blank">1733949,

PubMed:<a href="http://www.uniprot.org/ci tations/11559573"

target="_blank">11559573). 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" target="_blank">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/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.

Autotaxin Polyclonal Antibody - 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