Autotaxin (ENPP2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Autotaxin (ENPP2), Polyclonal Antibody
Full Product Name	Autotaxin Polyclonal Conjugated Antibody
Product Gene Name	anti-ENPP2 antibody
Product Synonym Names	ENPP2; ATX; PDNP2; Ectonucleotide pyrophosphatase/phosphodiesterase family member 2; E-NPP 2; Autotaxin; Extracellular lysophospholipase D; LysoPLD
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	Autotaxin polyclonal antibody detects endogenous levels of Autotaxin protein.
Preparation and Storage	Store at 4 degree C for 6 months.
Molecular Weight	863
OMIM	601060
3D Structure	ModBase 3D Structure for Q13822
Immunogen	Synthesized peptide derived from the Internal region of human Autotaxin.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-ENPP2 antibody	Most Applications
Application Notes for anti-ENPP2 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-ENPP2 antibody	MBS9450283 is an antibody targeting ENPP2. Also known as Autotaxin Polyclonal Conjugated Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-ENPP2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ENPP2. It may not necessarily be applicable to this product.

NCBI GI #	290457674

NCBI GeneID	5168
NCBI Accession #	Q13822.3
UniProt Primary Accession #	Q13822
UniProt Secondary Accession #	Q13827; Q14555; Q15117; Q9UCQ8; Q9UCR0; Q9UCR1; Q9UCR2; Q9UCR3; Q9UCR4; A8UHA1; E9PHP7
UniProt Related Accession #	Q13822
NCBI Official Full Name	Ectonucleotide pyrophosphatase/phosphodiesterase family member 2
NCBI Official Synonym Full Names	ectonucleotide pyrophosphatase/phosphodiesterase 2
NCBI Official Symbol	ENPP2
NCBI Official Synonym Symbols	ATX; NPP2; ATX-X; PDNP2; LysoPLD; AUTOTAXIN; PD-IALPHA
UniProt Protein Name	Ectonucleotide pyrophosphatase/phosphodiesterase family member 2
UniProt Synonym Protein Names	Autotaxin; Extracellular lysophospholipase D; LysoPLD
Protein Family	Ectonucleotide pyrophosphatase/phosphodiesterase family
UniProt Gene Name	ENPP2
UniProt Synonym Gene Names	ATX; PDNP2; E-NPP 2; LysoPLD
UniProt Entry Name	ENPP2_HUMAN
NCBI Protein Information	ectonucleotide pyrophosphatase/phosphodiesterase family member 2; E-NPP 2; autotaxin-t; plasma lysophospholipase D; extracellular lysophospholipase D; phosphodiesterase I/nucleotide pyrophosphatase 2
NCBI Summary for ENPP2	The protein encoded by this gene functions as both a phosphodiesterase, which cleaves phosphodiester bonds at the 5' end of oligonucleotides, and a phospholipase, which catalyzes production of lysophosphatidic acid (LPA) in extracellular fluids. LPA evokes growth factor-like responses including stimulation of cell proliferation and chemotaxis. This gene product stimulates the motility of tumor cells and has angiogenic properties, and its expression is upregulated in several kinds of carcinomas. The gene product is secreted and further processed to make the biologically active form. Several alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Aug 2008]
UniProt Comments for ENPP2	ENPP2: 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. Belongs to the nucleotide pyrophosphatase/phosphodiesterase family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Lipid Metabolism - ether lipid; Phosphodiesterase; Secreted, signal peptide; Secreted; Motility/polarity/chemotaxis; EC 3.1.4.39 Chromosomal Location of Human Ortholog: 8q24.1 Cellular Component: extracellular space; integral to plasma membrane; plasma membrane Molecular Function: nucleotide diphosphatase activity; phosphodiesterase I activity; nucleic acid binding; hydrolase activity; zinc ion binding; calcium ion binding; transcription factor binding; scavenger receptor activity; alkylglycerophosphoethanolamine phosphodiesterase activity; polysaccharide binding; lysophospholipase activity Biological Process: G-protein coupled receptor protein signaling pathway; receptor-mediated endocytosis; phospholipid catabolic process; immune response; cell motility; chemotaxis; regulation of angiogenesis; phosphate metabolic process; regulation of cell migration
Research Articles on ENPP2	**1.** The circulating level of lysophosphatidic acid in a systemic atopic dermatitis model, with severe scratching was probably because of the increased lysophospholipase D activity of autotaxin (ATX) in the blood rather than in plasma.

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