

Rabbit ENPP2 Polyclonal Antibody | anti-ENPP2 antibody

ENPP2 Antibody (Center K416)

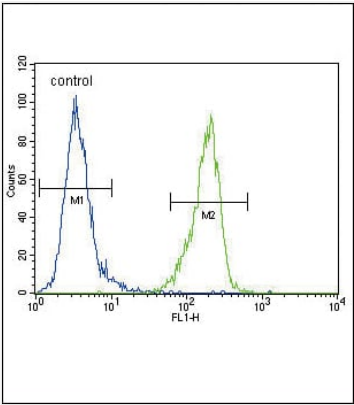
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA289512	Rabbit	Human (Predicted Reactivity: Bovine)	ELISA, Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

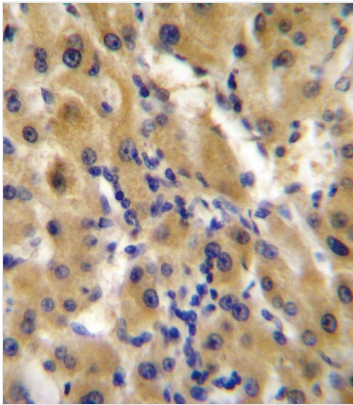
ENPP2; Polyclonal Antibody; ENPP2 Antibody (Center K416); Ectonucleotide pyrophosphatase/phosphodiesterase family member 2; E-NPP 2; Autotaxin; Extracellular lysophospholipase D; LysoPLD; ATX; PDNP2; anti-ENPP2 antibody

PRODUCT SPECIFICATIONS

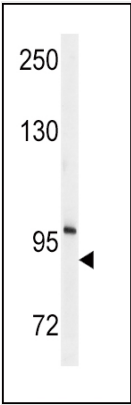
Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This ENPP2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 401-430 amino acids from the Central region of human ENPP2.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Sequence Positions	401-430
Sequence Length	888
Applicable Applications for anti-ENPP2 antibody	ELISA, FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Function	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.
Cellular location	Secreted. Note=Secreted by most body fluids including serum and CSF. Also by adipocytes and numerous cancer cells
Tissue Location	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
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.



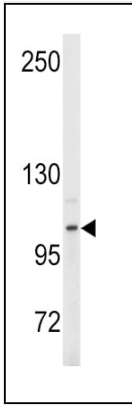
FCM/FACS (Flow Cytometry)
ENPP2 Antibody (Center K416) flow cytometric analysis of MDA-MB435 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohistochemisry)
ENPP2 Antibody (Center K416) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of ENPP2 Antibody (Center K416) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
Western blot analysis of anti-ENPP2 Antibody (Center K416) in mouse cerebellum tissue lysates (35ug/lane).ENPP2(arrow) was detected using the purified Pab.



WB (Western Blot)
Western blot analysis of anti-ENPP2 Antibody (Center K416) in Y79 cell line lysates (35ug/lane).ENPP2(arrow) was detected using the purified Pab.

ADDITIONAL INFORMATION

Related Product Information for anti-ENPP2 antibody	ENPP2 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 protein stimulates the motility of tumor cells and has angiogenic properties, and its expression is upregulated in several kinds of carcinomas. This protein is secreted and further processed to make the biologically active form.
Product Categories/Family for anti-ENPP2 antibody	Cancer; Cardiovascular; Metabolism; Neuroscience; Signal transduction
References	Kawagoe H., Soma O., Goji J., Nishimura N., Narita M.,Genomics 30:380-384(1995) Nam S.W., Clair T., Kim Y.S., McMarlin A.,Cancer Res. 61:6938-6944(2001) The MGC Project Team Genome Res. 14:2121-2127(2004)

NCBI AND UNIPROT INFORMATION

NCBI GI #	91823602
NCBI GeneID	5168
NCBI Accession #	NP_001035181.1; NP_001124335.1; NP_006200.3
NCBI GenBank Nucleotide #	NM_001040092.2

UniProt Accession #	Q13822 ; Q13827 ; Q14555 ; Q15117 ; Q9UCQ8 ; Q9UCR0 ; Q9UCR1 ; Q9UCR2 ; Q9UCR3 ; Q9UCR4 ; A8UHA1 ; E9PHP7
Molecular Weight	98994
NCBI Official Full Name	ectonucleotide pyrophosphatase/phosphodiesterase family member 2 isoform 2 preproprotein
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
NCBI Protein Information	ectonucleotide pyrophosphatase/phosphodiesterase family member 2
UniProt Protein Name	Ectonucleotide pyrophosphatase/phosphodiesterase family member 2
UniProt Gene Name	ENPP2
UniProt Synonym Gene Names	ATX; PDNP2; E-NPP 2; LysoPLD
UniProt Entry Name	ENPP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/enpp2-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/289512>