

Product datasheet

Anti-ENPP2/ATX antibody ab227306

1 Image

Overview

Product name	Anti-ENPP2/ATX antibody
Description	Rabbit polyclonal to ENPP2/ATX
Host species	Rabbit
Tested applications	Suitable for: ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Chicken, Cow ▲
Immunogen	Recombinant fragment within Human ENPP2/ATX (internal sequence). The exact sequence is proprietary. Database link: Q13822
Positive control	ICC/IF: NTERA-2 cl.D1 [NT2/D1] cells.
General notes	This product was previously labelled as ENPP2

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: PBS, 20% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab227306** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		1/100 - 1/1000.

Target

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.

Tissue specificity

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.

Sequence similarities

Belongs to the nucleotide pyrophosphatase/phosphodiesterase family.
Contains 2 SMB (somatomedin-B) domains.

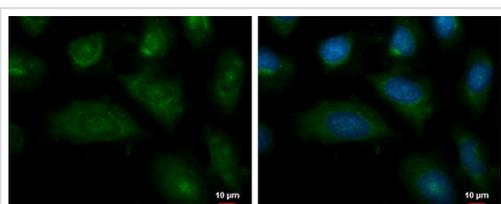
Post-translational modifications

N-glycosylation, but not furin-cleavage, plays a critical role on secretion and on lysoPLD activity.

Cellular localization

Secreted. Secreted by most body fluids including serum and CSF. Also by adipocytes and numerous cancer cells.

Images



Immunocytochemistry/ Immunofluorescence - Anti-ENPP2/ATX antibody (ab227306)

NTERA-2 cl.D1 [NT2/D1] (human malignant pluripotent embryonic carcinoma cell line) cells stained for ENPP2/ATX (green) using ab227306 at 1/500 dilution in ICC/IF. Cells were fixed in ice-cold methanol for 5 minutes.

Blue: Hoechst 33342 staining.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours

- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors