

Rabbit NAPE-PLD Polyclonal Antibody | anti-NAPEPLD antibody

NAPE-PLD Antibody

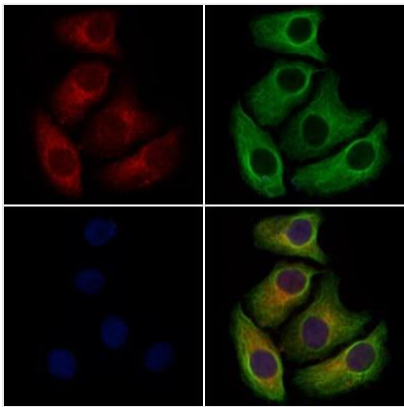
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329103	Rabbit	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig(88%), Bovine(88%), Horse(88%), Rabbit(88%)	ELISA

PRODUCT SYNONYMS

NAPE-PLD; Polyclonal Antibody; NAPE-PLD Antibody; C7orf18; DKFZp781D1098; FMP30; Mbldc1; N acyl phosphatidylethanolamine hydrolyzing phospholipase D; N acyl phosphatidylethanolamine phospholipase D; N-acyl phosphatidylethanolamine phospholipase D; N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase D; NAPE hydrolyzing phospholipase D; NAPE-hydrolyzing phospholipase D; NAPEP_HUMAN; NAPEPLD; anti-NAPEPLD antibody

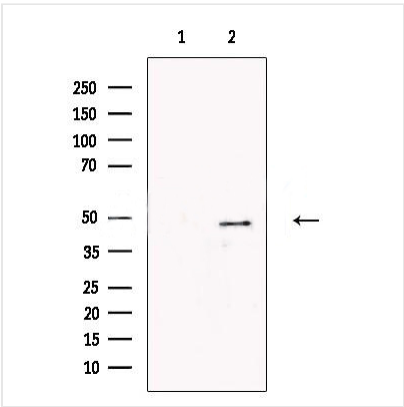
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat, Monkey Predicted Reactivity: Pig(88%), Bovine(88%), Horse(88%), Rabbit(88%)
Clonality	Polyclonal
Isotype	IgG
Specificity	NAPE-PLD Antibody detects endogenous levels of total NAPE-PLD.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol
Concentration	1mg/ml (varies by lot)
Sequence Length	393
Applicable Applications for anti-NAPEPLD antibody	ELISA
Immunogen	A synthesized peptide derived from human NAPE-PLD, corresponding to a region within the internal amino acids.
Fragment	Fab fragment
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



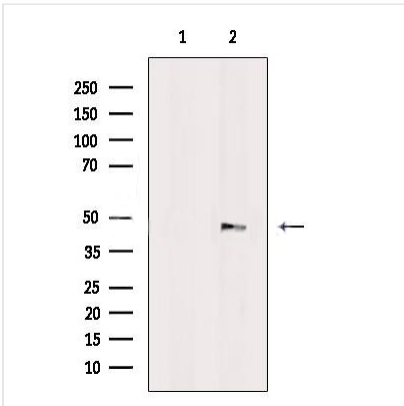
IF (Immunofluorescence)

AAA329103 staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. Samples were then incubated with primary Ab(AAA329103 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37°C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



WB (Western Blot)

Western blot analysis of extracts from Mouse brain, using NAPE-PLD Antibody. The lane on the left was treated with blocking peptide.



WB (Western Blot)

Western blot analysis of extracts from VERO cells, using NAPE-PLD Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-NAPEPLD antibody

Function: Hydrolyzes N-acyl-phosphatidylethanolamines (NAPEs) to produce N-acylethanolamines (NAEs) and phosphatidic acid (PubMed:25684574, PubMed:14634025, PubMed:16527816). Responsible for the generation of these bioactive fatty acid ethanolamides (FAEs), including anandamide (N-arachidonoylethanolamine), the ligand of cannabinoid and vanilloid receptors (PubMed:14634025). As a regulator of lipid metabolism in the adipose tissue, mediates the crosstalk between adipocytes, gut microbiota and immune cells to control body temperature and weight. In particular, regulates energy homeostasis by promoting cold-induced brown or beige adipocyte differentiation program to generate heat from fatty acids and glucose (By similarity).

Subcellular Location: Golgi apparatus membrane>Peripheral membrane protein. Early endosome membrane>Peripheral membrane protein. Nucleus envelope. Nucleus>Nucleoplasm. Note: Localized in the proximity of the cellular membranes likely through interaction with membrane phospholipids.

Tissue Specificity: Widely expressed. Highest expression in brain, kidney and testis (at protein level). Expressed in adipose tissue (at protein level).

Subunit Structure: Homodimer. Bile acids promote the assembly of inactive monomers into an active dimer and enable catalysis.

Similarity: Belongs to the NAPE-PLD family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	170932481
NCBI GeneID	222236
NCBI Accession #	NP_945341.3
NCBI GenBank Nucleotide #	NP_945341.3
UniProt Accession #	Q6IQ20
Molecular Weight	Observed Molecular Weight: (Observed)45kD. Predicted Molecular Weight: (Calculated)46kDa.
NCBI Official Full Name	N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase D
NCBI Official Synonym Full Names	N-acyl phosphatidylethanolamine phospholipase D
NCBI Official Symbol	NAPEPLD
NCBI Official Synonym Symbols	FMP30; C7orf18; NAPE-PLD
NCBI Protein Information	N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase D
UniProt Protein Name	N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase D
UniProt Gene Name	NAPEPLD
UniProt Synonym Gene Names	C7orf18; N-acyl phosphatidylethanolamine phospholipase D; NAPE-PLD; NAPE-hydrolyzing phospholipase D
UniProt Entry Name	NAPEP_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/nape-pld-antibody-elisa/329103>