



NAPE-PLD Mouse mAb

Catalog No	YP-mAb-19523
Isotype	IgG
Reactivity	Human,Mouse,Rat
Applications	WB
Gene Name	NAPEPLD C7orf18
Immunogen	Synthesized peptide derived from human NAPE-PLD. AA range:141-211
Specificity	This antibody detects endogenous levels of NAPE-PLD at Human, Mouse,Rat
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal,Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-15°C to -25°C/1 year(Do not lower than -25°C)
Synonyms	NAPEPLD C7orf18;N-acyl-phosphatidylethanolamine-hydrolyzing phospholipase D (N-acyl phosphatidylethanolamine phospholipase D) (NAPE-PLD) (NAPE-hydrolyzing phospholipase D) (EC 3.1.4.54)
Observed Band	
Calculated Molecular Weight	43kD
Cell Pathway	Golgi apparatus membrane ; Peripheral membrane protein . Early endosome membrane ; Peripheral membrane protein . Nucleus envelope . Nucleus , nucleoplasm . 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) .
Function	D-type phospholipase that hydrolyzes N-acyl-phosphatidylethanolamines (NAPEs) to produce bioactive N-acylethanolamines/fatty acid ethanolamides (NAEs/FAEs) and phosphatidic acid . Cleaves the terminal phosphodiester bond of diacyl- and alkenylacyl-NAPEs , primarily playing a role in the generation of long-chain saturated and monounsaturated NAEs in the brain (By similarity) . May control NAPE homeostasis in dopaminergic neuron membranes and regulate neuron survival , partly through RAC1 activation (By similarity) . 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. Has limited D-type phospholipase activity toward N-acyl lyso-NAPes (By similarity) .

Background

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images