Nature Biosciences

Email:support@naturebios.com
Web:http://naturebios.com

Choline Kinase α Rabbit mAb [ZA1D]

Cat NO. :A92738

Information:

Applications	Reactivity:	UniProt ID:	MW(kDa)	Host	Isotype	Size
WB	H	P35790	50 kDa	Rabbit	IgG	100ul,200ul

Applications detail:

Application	Dilution
WB	1:1000-2000

The optimal dilutions should be determined by the end user

Conjugate:

UnConjugate

Form:

Liquid

sensitivity:

Endogenous

Purification:

Protein A purification

Specificity:

Antibody is produced by immunizing animals with a synthetic peptide at the sequence of Human Choline Kinase α

Storage buffer and conditions:

Antibody store in 10 mM PBS, 0.5mg/ml BSA, 50% glycerol（buffer）.

Shipped at 4°C. Store at-20°C or -80°C.

Products are valid for one natural year of receipt.Avoid repeated freeze / thaw cycles.

Tissue specificity:

Subcellular location:

Cytoplasm, cytosol.,[Isoform 1]: Lipid droplet.

Function:

Plays a key role in phospholipid biosynthesis by catalyzing the phosphorylation of free choline to phosphocholine, the first step in phosphatidylcholine biosynthesis (PubMed:19915674, PubMed:34077757, PubMed:17007874). Also phosphorylates ethanolamine, thereby contributing to phosphatidylethanolamine biosynthesis (PubMed:19915674, PubMed:17007874). Has higher activity with choline (PubMed:19915674, PubMed:17007874). May contribute to tumor cell growth (PubMed:19915674).., [Isoform 1]: This isoform plays a key role in lipolysis of lipid droplets following glucose deprivation (PubMed:34077757). In response to glucose deprivation, phosphorylated by AMPK, promoting localization to lipid droplets (PubMed:34077757).

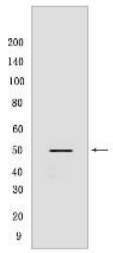
Introduction: **WB:** Western Blot **IP:** Immunoprecipitation **IHC:** Immunohistochemistry **ChIP:** Chromatin Immunoprecipitation **ICC/IF:** Immunocytochemistry/ Immunofluorescence **F:** Flow Cytometry

Cross Reactivity: **H:** human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm** D. melanogaster **X:** Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Hr:** horse

Phosphorylation is followed by acetylation by KAT5, leading to dissociation of the homodimer into a monomer (PubMed:34077757). Monomeric CHKA isoform 1 is converted into a tyrosine-protein kinase, which phosphorylates lipid droplet structural proteins PLIN2 and PLIN3, leading to lipolysis of lipid droplets (PubMed:34077757)..

Validation Data：

Choline Kinase α Rabbit mAb [ZA1D] Images



Western blot（SDS PAGE） analysis of extracts from MCF-7 cells.Using Choline Kinase α Rabbit mAb [ZA1D] at dilution of 1:1000 incubated at 4℃ over night.

View more information on http://naturebios.com

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 1% w/v Milk, 1X TBST at 4°C overnight.