



Choline Kinase Alpha mouse mAb

Catalog No	YP-mAb-18102
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CHKA CHK CKI
Immunogen	Synthesized peptide derived from human Choline Kinase Alpha
Specificity	This antibody detects endogenous levels of Choline Kinase Alpha 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 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CHKA;CHETK-alpha;CHK;CKI;EC:2.7.1.32;CHKA CHK CKI;Choline kinase alpha (CK) (EC 2.7.1.32) (CHETK-alpha) (Ethanamine kinase) (EK) (EC 2.7.1.82)
Observed Band	50 kDa
Calculated Molecular Weight	439 aa, 52 kDa
Cell Pathway	Cytoplasm, cytosol .; [Isoform 1]: Lipid droplet . Isoform 1 localizes to lipid droplets following phosphorylation by AMPK. .
Tissue Specificity	
Function	Plays a key role in phospholipid biosynthesis by catalyzing the phosphorylation of free choline to phosphocholine, the first step in phosphatidylcholine biosynthesis . Also phosphorylates ethanolamine, thereby contributing to phosphatidylethanolamine biosynthesis . Has higher activity with choline . May contribute to tumor cell growth . ; [Isoform 1]: This isoform plays a key role in lipolysis of lipid droplets following glucose deprivation . In response to glucose deprivation, phosphorylated by AMPK, promoting localization to lipid droplets . Phosphorylation is followed by acetylation by KAT5, leading to dissociation of the homodimer into a monomer . 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 .

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

