10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Choline kinase alpha (CHK) Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8179b

Product Information

Application	WB, E
Primary Accession	P35790
Other Accession	NP_001268
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB5497
Calculated MW	52249
Antigen Region	427-457

Additional Information

Gene ID	1119
Other Names	Choline kinase alpha, CK, CHETK-alpha, Ethanolamine kinase, EK, CHKA, CHK, CKI
Target/Specificity	This Choline kinase alpha (CHK) antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 427-457 amino acids from the C-terminal region of human Choline kinase alpha (CHK).
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Choline kinase alpha (CHK) Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

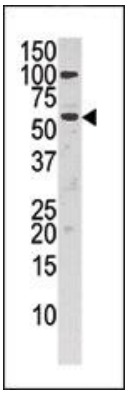
Name	CHKA
Synonyms	CHK, CKI {ECO:0000303|PubMed:1618328}

Function	Plays a key role in phospholipid biosynthesis by catalyzing the phosphorylation of free choline to phosphocholine, the first step in phosphatidylcholine biosynthesis (PubMed:17007874, PubMed:19915674, PubMed:23416529, PubMed:34077757). Also phosphorylates ethanolamine, thereby contributing to phosphatidylethanolamine biosynthesis (PubMed:17007874, PubMed:19915674). Has higher activity with choline (PubMed:17007874, PubMed:19915674). May contribute to tumor cell growth (PubMed:19915674).
Cellular Location	Cytoplasm, cytosol.

Background

The major pathway for the biosynthesis of phosphatidylcholine occurs via the CDP-choline pathway. Choline kinase alpha is the initial enzyme in the sequence and may play a regulatory role. This protein also catalyzes the phosphorylation of ethanolamine. The antibody for this protein recognizes both isoforms.

Images



Western blot analysis of anti-CHK (Cat. #AP8179b) in HepG2 cell line lysate (35ug/lane).CHK(arrow) was detected using the purified Pab.

Citations

- CHKA mediates the poor prognosis of lung adenocarcinoma and acts as a prognostic indicator.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.