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Choline kinase alpha Rabbit pAb

Catalog # AP97319

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P35790
Other Accession	P35790
Predicted	Rat, Pig, Human, Mouse, Dog, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52249
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Choline kinase alpha
Epitope Specificity	151-250/457
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the choline/ethanolamine kinase family.
SUBUNIT	Heterodimer with CHKB (By similarity). Homodimer.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The major pathway for the biosynthesis of phosphatidylcholine occurs via the CDP-choline pathway. The protein encoded by this gene is the initial enzyme in the sequence and may play a regulatory role. The encoded protein also catalyzes the phosphorylation of ethanolamine. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	1119
Other Names	CHK; CK; CKI; EK; NEDMIMS; CK/EK-alpha; Chetk-alpha; ChoK; EtnK-alpha; CK-R; CHKA_HUMAN; CHKA; Ethanolamine kinase (EK); 2.7.1.32; CHKA_MOUSE; CHKA_RAT; Ckr; choline kinase alpha; choline kinase
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

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.

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