CHK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CHK, Polyclonal Antibody
Full Product Name	CHK, NT (Choline Kinase alpha, CK, CHETK-alpha, Ethanolamine Kinase, EK, CHKA, CKI) (MaxLight 405)
Product Gene Name	anti-CHK antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human CHK. Species Crossreactivity: mouse.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	457
OMIM	118491
3D Structure	ModBase 3D Structure for P35790
Immunogen	Synthetic peptide selected from the N-terminal region of human CHK (KLH).
Conjugate	MaxLight405
Note	Preservative Free
Product Categories/Family for anti-CHK antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CHK antibody	Western Blot (WB), FLISA
Application Notes for anti-CHK antibody	WB: 1:100-1:500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CHK antibody	MBS6468836 is an antibody targeting CHK. Also known as CHK, NT (Choline Kinase alpha, CK, CHETK-alpha, Ethanolamine Kinase, EK, CHKA, CKI) (MaxLight 405). Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-CHK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CHK. It may not necessarily be applicable to this product.

NCBI GI #	226694197

NCBI GeneID	1119
NCBI Accession #	P35790.3
UniProt Primary Accession #	P35790
UniProt Secondary Accession #	Q8NE29
UniProt Related Accession #	P35790
NCBI Official Full Name	Choline kinase alpha
NCBI Official Synonym Full Names	choline kinase alpha
NCBI Official Symbol	CHKA
NCBI Official Synonym Symbols	CK; EK; CHK; CKI
UniProt Protein Name	Choline kinase alpha
UniProt Synonym Protein Names	CHETK-alpha; Ethanolamine kinase (EC:2.7.1.82); EK
Protein Family	Serine/threonine-protein kinase
UniProt Gene Name	CHKA
UniProt Synonym Gene Names	CHK; CKI; CK; EK
UniProt Entry Name	CHKA_HUMAN
NCBI Protein Information	choline kinase alpha; CHETK-alpha; ethanolamine kinase
NCBI Summary for CHK	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]
UniProt Comments for CHK	CHKA: Has a key role in phospholipid biosynthesis and may contribute to tumor cell growth. Catalyzes the first step in phosphatidylcholine biosynthesis. Contributes to phosphatidylethanolamine biosynthesis. Phosphorylates choline and ethanolamine. Has higher activity with choline. Belongs to the choline/ethanolamine kinase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Lipid Metabolism - glycerophospholipid; EC 2.7.1.82; Kinase, other; EC 2.7.1.32 Chromosomal Location of Human Ortholog: 11q13.2 Cellular Component: cytosol Molecular Function: choline binding; signal transducer activity; protein homodimerization activity; cholinesterase activity; drug binding; ethanolamine kinase activity; choline kinase activity; ATP binding Biological Process: choline metabolic process; CDP-choline pathway; phospholipid metabolic process; glycerophospholipid biosynthetic process; phosphatidylethanolamine biosynthetic process; phosphatidylcholine biosynthetic process; lipid metabolic process; signal transduction; lipid transport; phosphorylation
Research Articles on CHK	**1.** Our data suggest that choline kinase and its product phosphocholine are required for the normal growth and mineralization of MG-63 cells.
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