# CHK Antibody – Rabbit Polyclonal

## PRODUCT OVERVIEW

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| **Product Name** | CHK, Polyclonal Antibody |
| **Full Product Name** | CHK (Choline Kinase alpha, CK, CHETK-alpha, Ethanolamine Kinase, EK, CHKA, CKI) (MaxLight 750) |
| **Product Gene Name** | anti-CHK antibody |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Host** | Rabbit |
| **Species Reactivity** | Human |
| **Form/Format** | Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750. |
| **Purity/Purification** | Purified by Protein A Affinity Chromatography. |
| **Specificity** | Recognizes human CHKA. |
| **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 amo |
| **Molecular Weight** | 50,155 Da |
| **OMIM** | 118491 |
| **3D Structure** | ModBase 3D Structure for P35790 |
| **Immunogen** | Full length human CHKA, aa1-457 (NP_001268.2). |
| **Immunogen Sequence** | MKTKFCTGGEAEPSPLGLLLSCGSGSAAPAPGVGQQRDAASDLESKQLGGQQPPLALPPPPPLPLPLPLPQPPPPQPPADEQPEPRTRRRAYLWCKEF |
| **Conjugate** | MaxLight750 |
| **Note** | Preservative Free |
| **Product Categories/Family for anti-CHK antibody** | Antibodies; Protein Kinases |
| **Applications Tested/Suitable for anti-CHK antibody** | Western Blot (WB) |
| **Application Notes for anti-CHK antibody** | Applications are based on unconjugated antibody. |
| **Related Product Information for anti-CHK antibody** | The major pathway for the biosynthesis of phosphatidylcholine occurs via the CDP-choline pathway. Choline kinase alpha is the initial enzyme in the se |

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| **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 necessa |
| **Searchable Terms for CHK purchase** | MBS6373882 is an antibody targeting CHK. Also known as CHK (Choline Kinase alpha, CK, CHETK-alpha, Ethanolamine Kinase, EK, CHKA, CKI) (Ma |

## ADDITIONAL DETAILS

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

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| **NCBI GI #** | 47078276 |
| **NCBI GeneID** | 1119 |
| **NCBI Accession #** | NP_001268.2 |
| **UniProt Primary Accession #** | P35790 |
| **UniProt Secondary Accession #** | Q8NE29 |
| **UniProt Related Accession #** | P35790 |
| **GenBank Nucleotide #** | NM_001277.2 |
| **NCBI Official Full Name** | choline kinase alpha isoform a |
| **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 |
| **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.<br><br>Protein type: Lipid Metabolism - glycerophospholipid; EC 2.7.1.82; Kinase, other; EC 2.7.1.32<br><br>Chromosomal Location of Human Ortholog: 11q13.2<br><br>Cellular Component: cytosol<br><br>Molecular Function: choline binding; signal transducer activity; protein homodimerization activity; cholinesterase activity; drug binding; ethanolamine kinase activity; choline kinase activity; ATP binding<br><br>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 |

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| **Research Articles on CHK** | **1.** choline kinase alpha is inhibited by a near-infrared fluorescent carbocyanine |
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