

Rabbit anti-Human UMP-CMP Kinase Polyclonal Antibody | anti-CMPK1 antibody

UMP-CMP Kinase Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322646	Rabbit	Human	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

UMP-CMP Kinase; Polyclonal Antibody; UMP-CMP Kinase Antibody; CMK; CMPK 1; CMPK; cmpk1; Cytidine monophosphate (UMP CMP) kinase 1 cytosolic; Cytidine monophosphate kinase; Cytidine monophosphate UMP CMP kinase 1 cytosolic; Cytidylate kinase; dCMP kinase; Deoxycytidylate kinase; EC 2.7.4.14; KCY; KCY_HUMAN; Monophosphatase kinase; OTTHUMP00000009565; RP11 511I2.1; UCK; UMK; UMP CMP; UMP CMP kinase; UMP-CMP kinase; UMP/CMP kinase; UMP/CMPK; UMPK; Uridine monophosphate kinase; Uridine monophosphate/cytidine monophosphate kinase; anti-CMPK1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	UMP-CMP Kinase antibody detects endogenous levels of total UMP-CMP Kinase
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	179
Applicable Applications for anti-CMPK1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human UMP-CMP Kinase
Subcellular Location	Nucleus. Cytoplasm. Mainly nuclear.
Tissue Specificity	Ubiquitously expressed.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis UMP-CMP Kinase using HeLa whole cell lysates



IHC (Immunohistochemistry)

AAA322646 at 1/100 staining Human breast cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA322646 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-CMPK1 antibody	Function: Catalyzes the phosphorylation of pyrimidine nucleoside monophosphates at the expense of ATP. Plays an important role in de novo pyrimidine nucleotide biosynthesis. Has preference for UMP and CMP as phosphate acceptors. Also displays broad nucleoside diphosphate kinase activity. Subunit Structure: Monomer. Similarity: Consists of three domains, a large central CORE domain and two small peripheral domains, NMPbind and LID, which undergo movements during catalysis. The LID domain closes over the site of phosphoryl transfer upon ATP binding. Assembling and disassembling the active center during each catalytic cycle provides an effective means to prevent ATP hydrolysis. Belongs to the adenylate kinase family. UMP-CMP kinase subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	209915597
NCBI GeneID	51727
NCBI Accession #	NP_001129612.1
NCBI GenBank Nucleotide #	NM_001136140.1
UniProt Accession #	P30085; Q53GB7; Q5SVZ0; Q96C07; Q9UBQ8; Q9UIA2; B4DPU7; E9PGI8
Molecular Weight	Observed: 22 kDa Predicted: 23 kDa
NCBI Official Full Name	UMP-CMP kinase isoform b
NCBI Official Synonym Full Names	cytidine/uridine monophosphate kinase 1
NCBI Official Symbol	CMPK1
NCBI Official Synonym Symbols	CK; CMK; UMK; CMPK; UMPK; UMP-CMPK
NCBI Protein Information	UMP-CMP kinase
UniProt Protein Name	UMP-CMP kinase
UniProt Gene Name	CMPK1
UniProt Synonym Gene Names	CMK; CMPKUniRule annotationManual assertion according to rulesiHAMAP-Rule:MF_03172; UCK; UMK; UMPK; CK

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.