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Datasheet for 600-401-AM1

CMPK2 Antibody

Overview

Description:	Anti-CMPK2 (RABBIT) Antibody - 600-401-AM1
Item No.:	600-401-AM1
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	UMP-CMP kinase 2 (CMPK2) is the first nucleoside monophosphate kinase that has been identified in human mitochondria. It is a component of the salvage pathway for nucleotide synthesis that may participate in terminal differentiation of monocytic cells. There are two distinct domains of CMPK2: the N-terminal domain with unknown function and the C-terminal domain with the kinase function, suggesting that CMPK2 may be a bifunctional protein with other biological functions in addition to its UMP-CMP kinase activity. CMPK2 may participate in dUTP and dCTP synthesis and is responsible for phosphorylation of dCMP and dUMP in mitochondria. CMPK2 is actively involved in macrophage activation and the inflammatory response
Synonyms:	CMPK2 Antibody, TYKi, TMPK2, UMP-CMPK2, UMP-CMP kinase 2, mitochondrial, Nucleoside-diphosphate kinase
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	CMPK2
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-CMPK2 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 19 amino acid synthetic peptide near the C-terminus of human CMPK2.
Purity/Specificity:	Anti-CMPK2 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Multiple isoforms of CMPK2 are known to exist.
Relevant Links:	• UniProtKB - Q5EBM0 • GeneID - 129607 • NCBI - NP_997198

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-CMPK2 Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 49 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
WB:	1 µg/mL

Formulation

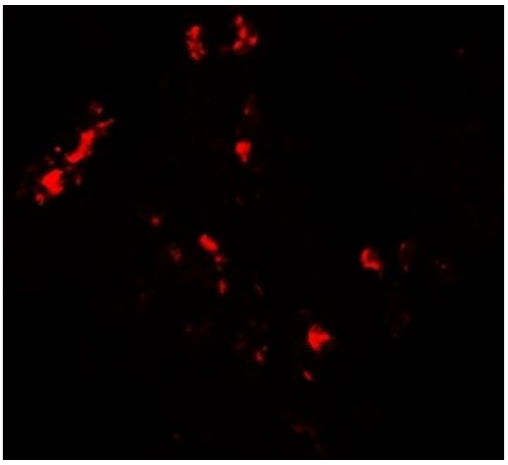
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

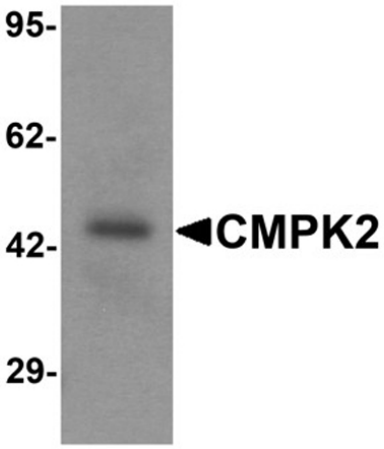
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy
Immunofluorescence of CMPK2.
Tissue: human lung tissue.
Primary Antibody: CMPK2 antibody at 20 µg/mL.



Western Blot
Western blot analysis of CMPK2.
Load: rat lung tissue lysate.
Primary Antibody: CMPK2 antibody at 1 µg/mL.

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