

# Anti-CMPK1 Antibody

Rabbit polyclonal antibody to CMPK1

Catalog # AP60555

## Product Information

Application	WB, IF/IC, IHC
Primary Accession	<a href="#">P30085</a>
Other Accession	<a href="#">Q9DBP5</a>
Reactivity	Human, Mouse, Rat, Pig, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	22222

## Additional Information

Gene ID	51727
Other Names	CMK; CMPK; UCK; UMK; UMPK; UMP-CMP kinase; Deoxycytidylate kinase; CK; dCMP kinase; Nucleoside-diphosphate kinase; Uridine monophosphate/cytidine monophosphate kinase; UMP/CMP kinase; UMP/CMPK
Target/Specificity	Recognizes endogenous levels of CMPK1 protein.
Dilution	WB~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500) IF/IC~~N/A IHC~~WB (1/500 - 1/1000), IHC (1/100 - 1/200), IF/IC (1/100 - 1/500)
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

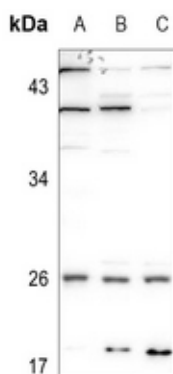
## Protein Information

Name	CMPK1 {ECO:0000255 HAMAP-Rule:MF_03172}
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.
Cellular Location	Nucleus {ECO:0000255 HAMAP-Rule:MF_03172, ECO:0000269 PubMed:10462544, ECO:0000269 PubMed:11912132}. Cytoplasm {ECO:0000255 HAMAP-Rule:MF_03172, ECO:0000269 PubMed:10462544, ECO:0000269 PubMed:11912132}. Note=Predominantly cytoplasmic, less than 15% nuclear.

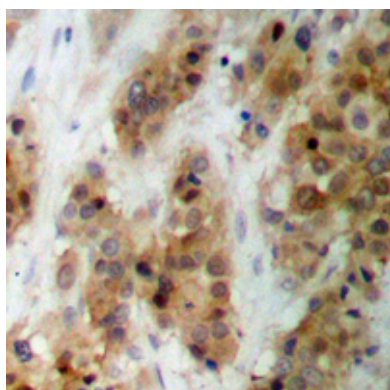
## Background

KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human CMPK1. The exact sequence is proprietary.

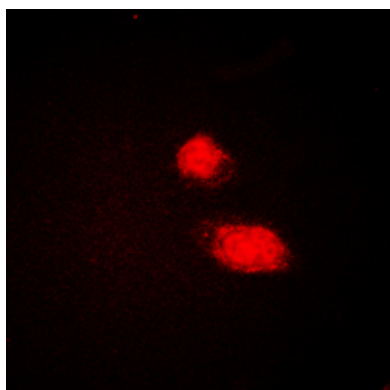
## Images



Western blot analysis of CMPK1 expression in HEK293T (A), A549 (B), HeLa (C) whole cell lysates.



Immunohistochemical analysis of CMPK1 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of CMPK1 staining in HEK293T cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

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