

KD-Validated Anti-CMPK1 Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI2013**Specification****KD-Validated Anti-CMPK1 Mouse Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P30085
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	Predicted, 22 kDa, observed, 20 kDa kDa
Gene Name	CMPK1
Aliases	CMPK1; Cytidine/Uridine Monophosphate Kinase 1; UMP-CMP Kinase; UMP/CMP Kinase; UMP-CMPK; CMPK; Cytidine Monophosphate (UMP-CMP) Kinase 1, Cytosolic; Uridine Monophosphate/Cytidine Monophosphate Kinase; Nucleoside-Diphosphate Kinase; Deoxycytidylate Kinase; Cytidylate Kinase; DCMP Kinase; EC 2.7.4.14; UMPK; CMK; UMK; CK; Cytidine Monophosphate Kinase; Uridine Monophosphate Kinase; EC 2.7.4.6; UMP/CMPK; EC 2.7.4; UCK
Immunogen	Recombinant protein of human CMPK1

KD-Validated Anti-CMPK1 Mouse Monoclonal Antibody - Additional Information

Gene ID	51727
Other Names	
UMP-CMP kinase {ECO:0000255 HAMAP-Rule:MF_03172}, 2.7.4.14 {ECO:0000255 HAMAP-Rule:MF_03172}, Deoxycytidylate kinase {ECO:0000255 HAMAP-Rule:MF_03172}, CK {ECO:0000255 HAMAP-Rule:MF_03172}, dCMP kinase {ECO:0000255 HAMAP-Rule:MF_03172}, Nucleoside-diphosphate kinase {ECO:0000255 HAMAP-Rule:MF_03172}, 2.7.4.6 {ECO:0000255 HAMAP-Rule:MF_03172}, Uridine monophosphate/cytidine monophosphate kinase {ECO:0000255 HAMAP-Rule:MF_03172}, UMP/CMP kinase {ECO:0000255 HAMAP-Rule:MF_03172}, UMP/CMPK {ECO:0000255 HAMAP-Rule:MF_03172}, CMPK1 {ECO:0000255 HAMAP-Rule:MF_03172}	

KD-Validated Anti-CMPK1 Mouse Monoclonal Antibody - 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.

Tissue Location

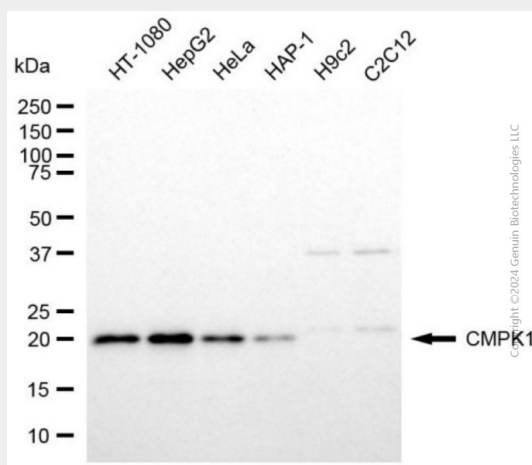
Ubiquitously expressed.

KD-Validated Anti-CMPK1 Mouse Monoclonal Antibody - Protocols

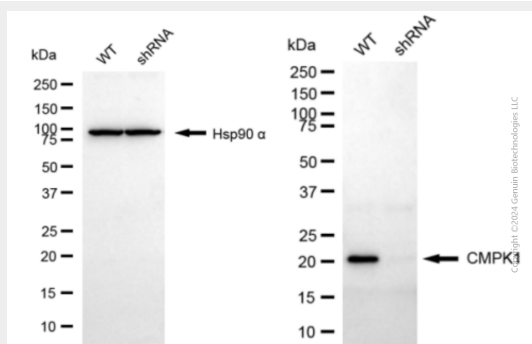
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

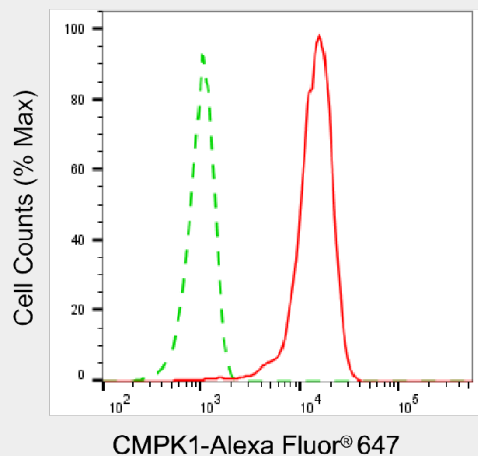
KD-Validated Anti-CMPK1 Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-CMPK1 antibody (Cat#AGI2013). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-CMPK1 antibody (Cat#AGI2013, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-CMPK1 antibody (Cat#AGI2013). CMPK1 expression in wild type (WT) and CMPK1 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-CMPK1 antibody (Cat#AGI2013, 1:2,500) and HRP-conjugated goat anti-mouse secondary antibody respectively.



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Flow cytometric analysis of CMPK1 expression in HepG2 cells using anti-CMPK1 antibody (Cat#AGI2013, 1:1,000). Green, isotype control; red, CMPK1.