

KD-Validated Anti-CMPK1 Mouse Monoclonal Antibody

Mouse monoclonal antibody

Catalog # AGI2013

Product Information

Application	WB, FC
Primary Accession	P30085
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG1
Clone Names	24GB7965
Calculated MW	22222
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

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}

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.

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