

CMPK / CMPK1 Antibody (clone 1D7)
Mouse Monoclonal Antibody
Catalog # ALS14301**Specification**

CMPK / CMPK1 Antibody (clone 1D7) - Product Information

Application	WB, IHC
Primary Accession	P30085
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Calculated MW	22kDa kDa

CMPK / CMPK1 Antibody (clone 1D7) - 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}

Target/Specificity

Human UMP/CMP kinase

Reconstitution & Storage

Aliquot and store at -20°C or -80°C. Avoid freeze-thaw cycles.

Precautions

CMPK / CMPK1 Antibody (clone 1D7) is for research use only and not for use in diagnostic or therapeutic procedures.

CMPK / CMPK1 Antibody (clone 1D7) - 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.

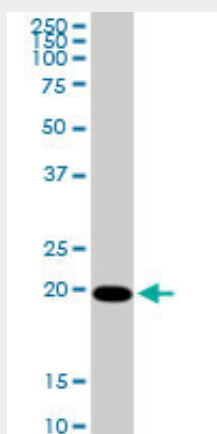
Volume

50 µl

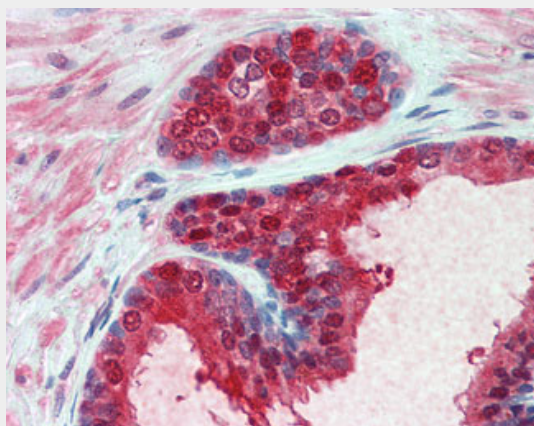
CMPK / CMPK1 Antibody (clone 1D7) - Protocols

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](#)

CMPK / CMPK1 Antibody (clone 1D7) - Images

CMPK monoclonal antibody, clone 1D7. Western blot of CMPK expression in K-562.



Anti-CMPK1 / CMPK antibody IHC of human prostate.

CMPK / CMPK1 Antibody (clone 1D7) - Background

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.

CMPK / CMPK1 Antibody (clone 1D7) - References

Van Rompay A.R.,et al.Mol. Pharmacol. 56:562-569(1999).
Pearman A.T.,et al.Life Sci. 69:2361-2370(2001).
Liou J.-Y.,et al.Cancer Res. 62:1624-1631(2002).
Song H.,et al.Submitted (DEC-1998) to the EMBL/GenBank/DDBJ databases.
Fan Y.X.,et al.Submitted (JUL-2003) to the EMBL/GenBank/DDBJ databases.