

For Research Use Only

# CoraLite®594-conjugated CMPK1 Monoclonal antibody



Catalog Number:CL594-67519

## Basic Information

<b>Catalog Number:</b> CL594-67519	<b>GenBank Accession Number:</b> BC014961	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 51727	<b>CloneNo.:</b> 2D11G7
<b>Source:</b> Mouse	<b>Full Name:</b> cytidine monophosphate (UMP-CMP) kinase 1, cytosolic	<b>Recommended Dilutions:</b> IF 1:50-1:500
<b>Isotype:</b> IgG2b	<b>Calculated MW:</b> 228 aa, 26 kDa	<b>Excitation/Emission maxima wavelengths:</b> 593 nm / 614 nm
<b>Immunogen Catalog Number:</b> AG30084	<b>Observed MW:</b> 22-26 kDa	

## Applications

<b>Tested Applications:</b> IF	<b>Positive Controls:</b> IF : HeLa cells,
<b>Species Specificity:</b> Human	

## Background Information

Pyrimidine nucleoside monophosphate kinase [UMP/CMP Kinase (UMP/CMPK)] (CMPK1) is also named as CMK, CMPK, UCK, UMK, UMPK and belongs to the adenylate kinase family. It plays a crucial role in the formation of UDP, CDP, and dCDP, which are required for cellular nucleic acid synthesis(PMID:11912132). CMPK1 can use a broad spectrum of phosphate donors but the best phosphate donors are ATP and dATP. CMPK1 has been reported as a prognostic marker for non-small cell lung cancer, pancreatic cancer and breast cancer (PMID: 21642870, 22838950, 27558661). The longest deduced protein contains 228 amino acids and has a calculated molecular mass of 26 kD. However, translation likely begins at the second initiation methionine, resulting in a protein of 196 amino acids(PMID:10462544). The shorter form is the endogenously translated protein(PMID:11912132). CMPK1 has 3 isoforms with the molecular mass of 22, 16 and 26 kDa.

## Storage

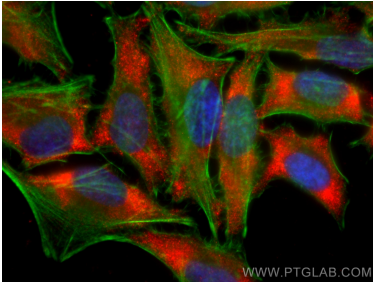
**Storage:**  
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA) E: proteintech@ptglab.com W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Coralite®594 CMPK1 antibody (CL594-67519, Clone: 2D11G7) at dilution of 1:200, CL488-Phalloidin (green).