

CMPK1 Monoclonal antibody

Catalog Number: 67519-1-Ig

Basic Information

Catalog Number: 67519-1-Ig	GenBank Accession Number: BC014961	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 51727	CloneNo.: 2D11G7
Source: Mouse	UNIPROT ID: P30085	Recommended Dilutions: WB 1:5000-1:50000 IF/ICC 1:200-1:800
Isotype: IgG2b	Full Name: cytidine monophosphate (UMP-CMP) kinase 1, cytosolic	
Immunogen Catalog Number: AG30084	Calculated MW: 228 aa, 26 kDa	
	Observed MW: 22-26 kDa	

Applications

Tested Applications: IF/ICC, WB, ELISA	Positive Controls:
Species Specificity: Human	WB : HeLa cells, HEK-293 cells, Jurkat cells IF/ICC : HeLa cells,

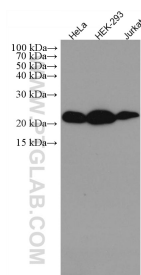
Background Information

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.

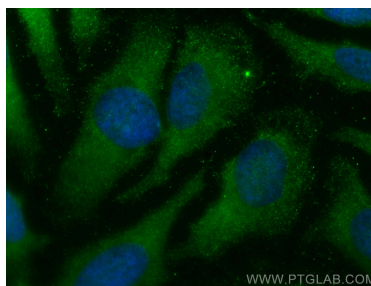
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67519-1-Ig (CMPK1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using CMPK1 antibody (67519-1-Ig, Clone: 2D11G7) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).