

For Research Use Only

UMP/CMP kinase Recombinant monoclonal antibody, PBS Only

Catalog Number: 86475-3-PBS



Basic Information

Catalog Number: 86475-3-PBS	GenBank Accession Number: BC014961	Purification Method: Protein A purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 51727	CloneNo.: 251233A1
Source: Rabbit	UNIPROT ID: P30085	
Isotype: IgG	Full Name: cytidine monophosphate (UMP-CMP) kinase 1, cytosolic	
Immunogen Catalog Number: AG1920	Calculated MW: 228 aa, 26 kDa	
	Observed MW: 22 kDa	

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

Pyrimidine nucleoside monophosphate kinase [UMP/CMP kinase (UMP/CMK)] (CMK1) is also named as CMK, CMK1, UCK, UCK1, UCK2, UCK3 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). CMK1 can use a broad spectrum of phosphate donors but the best phosphate donors are ATP and dATP. CMK1 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 kDa. 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). CMK1 has 3 isoforms with the molecular mass of 22, 16 and 26 kDa.

Storage

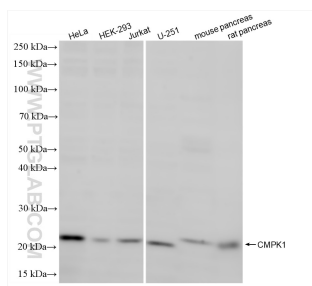
Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

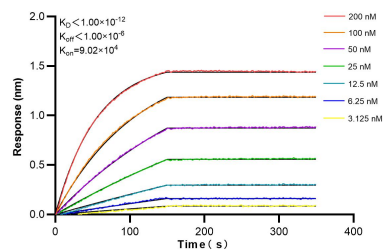
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86475-3-RR (CMPK1 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 86475-3-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 86475-3-RR against Human UMP/CMP kinase were performed. The affinity constant is below 1 pM.