For Research Use Only

UMP/CMP kinase Polyclonal antibody

Catalog Number:11360-1-AP 2 Publications



Basic Information	Catalog Number: GenBank Accession Number: 11360-1-AP BC014961		ccession Number:	Purification Method: Antigen affinity purification		
	Concentration:	GenelD (NC	:BI):	Recommended Dilutions:		
	350 µg/ml	51727	51727 UNIPROT ID: P30085		WB: 1:500-1:1000 IHC: 1:50-1:500 IF/ICC: 1:50-1:500	
	Source: Rabbit					
	Isotype: IgG	•	Full Name: cytidine monophosphate (UMP-CMP) kinase 1, cytosolic Calculated MW: 228 aa, 26 kDa			
	Immunogen Catalog Number: AG1920	Calculated				
			Observed MW:			
Applications	Tested Applications: Positive Control			ontrols:		
	WB, IHC, IF/ICC, ELISA Cited Applications:			WB : mouse pancreas tissue, human pancreas tissue, human skeletal muscle tissue		
	WB Species Specificity:	IHC : humaı tissue	IHC : human lung cancer tissue, human breast cancer tissue			
	human, mouse, rat IF/I Cited Species: human			CC : HeLa cells,		
	Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0					
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.					
Notable Publications	Author	Pubmed ID	Journal		Application	
	Víctor Llombart	27888142	J Proteomics			
	Hannah N Wilkins	39539261	ACS Pharmacol Tra	ansl Sci	WB	
Storage	Storage: Store at -20°C. Stable for one y Storage Buffer: PBS with 0.02% sodium azide a Aliquoting is unnecessary for -	and 50% glycerol, p				

For technical support and original validation data for this product please contact: E: Proteintech-CN@ptglab.com T: 4006900926 W: ptgcn.com

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Selected Validation Data



mouse pancreas tissue were subjected to SDS PAGE followed by western blot with 11360-1-AP (UMP/CMP kinase antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 11360-1-AP (UMP/CMP kinase antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffinembedded human lung cancer tissue slide using 11360-1-AP (UMP/CMP kinase antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using 11360-1-AP (UMP/CMP kinase antibody) at dilution of 1:50 and Alexa Fluor 488-Conjugated Goat Anti-Rabbit IgG(H+L).