

For Research Use Only

CMPK2 Polyclonal antibody, PBS Only

Catalog Number:25877-1-PBS



Basic Information

Catalog Number: 25877-1-PBS	GenBank Accession Number: BC141802	Purification Method: Antigen affinity purification
Size: 100ug , Concentration: 1 mg/ml by Nanodrop;	GeneID (NCBI): 129607	
Source: Rabbit	UNIPROT ID: Q5EBMO	
Isotype: IgG	Full Name: cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial	
Immunogen Catalog Number: AG22885	Calculated MW: 449 aa, 49 kDa	
	Observed MW: 55 kDa	

Applications

Tested Applications:
WB, IHC, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

CMPK2 belongs to the thymidylate kinase family. CMPK2 may participate in dUTP and dCTP synthesis in mitochondria. It is able to phosphorylate dUMP, dCMP, CMP, UMP and monophosphates of the pyrimidine nucleoside analogs ddC, dFdC, araC, BVDU and FdUrd with ATP as phosphate donor. Efficacy of CMPK2 is highest for dUMP followed by dCMP; CMP and UMP are poor substrates. CMPK2 may be involved in mtDNA depletion caused by long term treatment with ddC or other pyrimidine analogs.

Storage

Storage:
Store at -80°C.

Storage Buffer:
PBS only, pH7.3

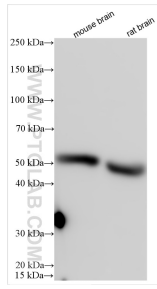
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

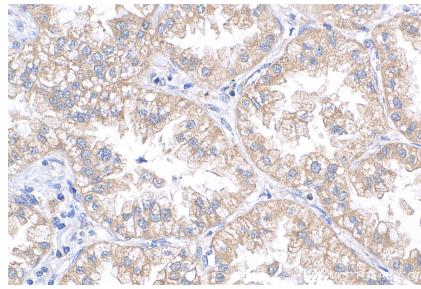
E: proteintech@ptglab.com
W: ptglab.com

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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 25877-1-AP (CMPK2 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 25877-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 25877-1-AP (CMPK2 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 25877-1-PBS in a different storage buffer formulation.