

For Research Use Only

CMPK2 Polyclonal antibody

Catalog Number: 25877-1-AP



Basic Information

Catalog Number: 25877-1-AP	GenBank Accession Number: BC141802	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 650 µg/ml by Nanodrop;	GeneID (NCBI): 129607	Recommended Dilutions: WB 1:1000-1:6000 IHC 1:50-1:500
Source: Rabbit	Full Name: cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial	
Isotype: IgG	Calculated MW: 449 aa, 49 kDa	
Immunogen Catalog Number: AG22885	Observed MW: 50 kDa	

Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, rat brain tissue

IHC : human lung cancer tissue,

Background Information

CMPK2 belongs to the thymidylate kinase family. CMPIK2 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 CMPIK2 is highest for dUMP followed by dCMP; CMP and UMP are poor substrates. CMPIK2 may be involved in mtDNA depletion caused by long term treatment with ddC or other pyrimidine analogs.

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

*** 20ul sizes contain 0.1% BSA

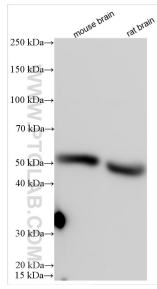
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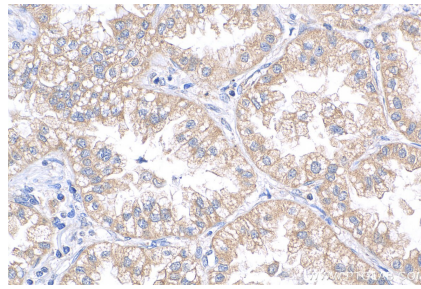
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Selected Validation Data



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.



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).