

UMP/CMP kinase Polyclonal Antibody

Catalog number: 11360-1-AP

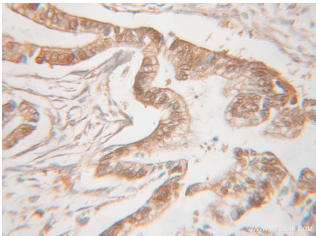
Size: 35 µg/150 µl

Source: Rabbit

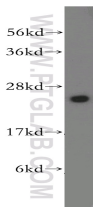
Isotype: IgG

Synonyms:

CMPK1; CMK, CMPK, CMPK1, Cytidine monophosphate kinase, Cytidylate kinase, Deoxycytidylate kinase, UCK, UMK, UMP CMP kinase, UMP CMPK, UMP/CMP kinase, UMP/CMPK, UMPK, Uridine monophosphate kinase



Immunohistochemical of paraffin-embedded human pancreas cancer using 11360-1-AP (CMPK1 antibody) at dilution of 1:100 (under 10x lens)



human pancreas tissue were subjected to SDS PAGE followed by western blot with 11360-1-AP (CMPK1 antibody) at dilution of 1:300

Background

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. 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).

Applications

Tested applications:	ELISA, WB, IHC
Species specificity:	Human, Mouse, Rat; other species not tested.
Calculated UMP/CMP kinase	228aa, 26 kDa
MW:	
Observed UMP/CMP kinase	26 kDa
MW:	
Positive WB detected in	Human pancreas tissue, human skeletal muscle tissue
Positive IHC detected in	Human pancreas cancer tissue
Recommended dilution:	WB: 1:200-1:2000 IHC: 1:20-1:200

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1920
GenBank accession number:	BC014961
Gene ID (NCBI):	51727
Full name:	Cytidine monophosphate (UMP-CMP) kinase 1, cytosolic

Product information

Purification method:	Antigen affinity purification
Storage:	PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.