

For Research Use Only

CDK10 Polyclonal antibody

Catalog Number: 17182-1-AP

2 Publications



Basic Information

Catalog Number: 17182-1-AP	GenBank Accession Number: BC017342	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 300 µg/ml by Nanodrop and 187 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 8558	Recommended Dilutions: IHC 1:50-1:500
Source: Rabbit	UNIPROT ID: Q15131	
Isotype: IgG	Full Name: cyclin-dependent kinase 10	
Immunogen Catalog Number: AG10935	Calculated MW: 283 aa, 32 kDa	
	Observed MW: 38 kDa	

Applications

Tested Applications: IHC, ELISA	Positive Controls: IHC : mouse brain tissue,
Cited Applications: WB	
Species Specificity: human, mouse, rat	
Cited Species: human	
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

Cyclin-dependent kinase 10 (CDK10) is a Cdc2-related kinase that was discovered based on its homology to the Cdc2 PSTA1RE amino acid domain (PMID: 8208557). CDK10 plays a pivotal role in the regulation of fundamental cellular processes, including cell proliferation, transcription regulation, and cell cycle regulation. It partners with cyclin M to phosphorylate substrates such as ETS2 and PKN2 in order to modulate cellular growth. Initial reports have indicated that CDK10 may act as a tumor suppressor in breast cancer (PMID: 26392360). Additional studies have demonstrated tumor suppressive and oncogenic roles for CDK10 in malignancies such as hepatobiliary cancers, gastric cancer, glioma, nasopharyngeal carcinoma, and colorectal cancer (PMID: 22326270, PMID: 29512714, PMID: 23740091, PMID: 29845196)

Notable Publications

Author	Pubmed ID	Journal	Application
Jianhua Yu	29435072	Oncol Lett	WB
Chaojin Hong	38919013	BMB Rep	WB

Storage

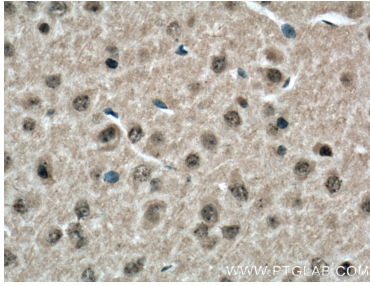
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

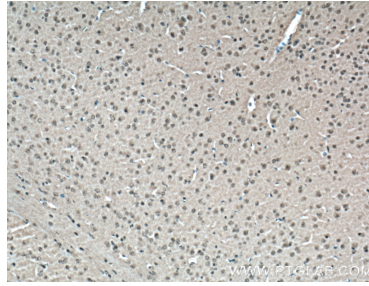
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17182-1-AP (CDK10 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 17182-1-AP (CDK10 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).