For Research Use Only

CDK13 Polyclonal antibody

Catalog Number:30461-1-AP 2 Publications



Basic Information

 Catalog Number:
 GenBank Accession Number:

 30461-1-AP
 NM_003718.4

 Concentration:
 GeneID (NCBI):

 350 ug/ml
 8621

 Source:
 UNIPROT ID:

 Rabbit
 Q14004

Full Name: cell division cycle 2-like 5

Immunogen Catalog Number: (cholinesterase-related cell division

170 kDa

AG32897 controller)
Calculated MW:
165 kDa
Observed MW:

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Cited Applications:

WR

Isotype:

Species Specificity:

human
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 Positive Controls:

WB: HEK-293T cells, HeLa cells, Jurkat cells, MDA-MB-

Purification Method:

WB 1:500-1:1000 IHC 1:50-1:500

IF/ICC 1:200-1:800

Antigen affinity purification

Recommended Dilutions:

468 cells

IHC: human ovary cancer tissue,

IF/ICC: HeLa cells,

Background Information

Cyclin-dependent kinase 13 (CDK13) is also named as CDC2L, CDC2L5, CHED and KIAA1791, and belongs to the CMGC Ser/Thr protein kinase family. Interestingly, in TNBC cells silencing CDK13 provokes cell death without affecting DDR genes. Like CDK12, CDK13 phosphorylates the Ser2 position of the heptad repeat in the CTD of RNA Pol II (PMID:26748711). CDK13/CyclK complex is that regulates transcription by phosphorylating serine residues at positions 5 and 2 of the heptapeptide repeats (Y-S-P-T-S-P-S) comprising the C-terminal domain (CTD) of RPB1, the largest subunit of RNA polymerase II (RNAPII). CDK13 is expressed in fetal brain, liver, and muscle, and adult whole brain, hippocampus, and bone marrow (PMID:30904094).

Notable Publications

Author	Pubmed ID	Journal	Application
Yubo Wang	39895086	J Med Chem	WB
Zihao Li	39082894	Carcinogenesis	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

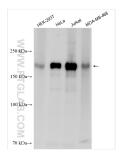
For technical support and original validation data for this product please contact:

T: 4006900926 E: Proteintech-CN@ptglab.com

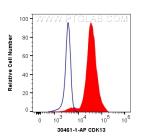
W: ptgcn.cor

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

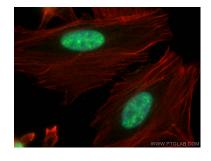


Various lysates were subjected to SDS PAGE followed by western blot with 30,461-1-AP (CDK13 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



1X10^6 K-562 cells were intracellularly stained with 0.4 ug Anti-Human CDK13 (30461-1-AP) and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgC(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).

Immunohistochemical analysis of paraffinembedded human ovary cancer tissue slide using 30461-1-AP (CDK13 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using CDK13 antibody (30461-1-AP) at dilution of 1:400 and Coralite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-phalloidin (red).