

For Research Use Only

CDK13 Polyclonal antibody, PBS Only

Catalog Number:30461-1-PBS



Basic Information

Catalog Number:

30461-1-PBS

Size:

100ug , Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG32897

GenBank Accession Number:

NM_003718.4

GeneID (NCBI):

8621

UNIPROT ID:

Q14004

Full Name:

cell division cycle 2-like 5 (cholinesterase-related cell division controller)

Calculated MW:

165 kDa

Observed MW:

170 kDa

Purification Method:

Antigen affinity purification

Applications

Tested Applications:

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

Species Specificity:

human

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/CycK 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).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS Only

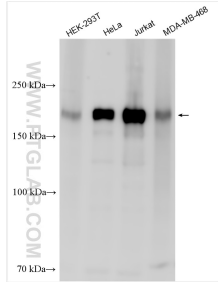
For technical support and original validation data for this product please contact:

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

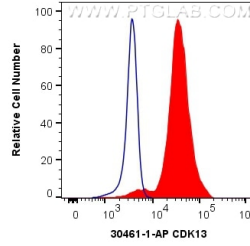
E: proteintech@ptglab.com
W: ptglab.com

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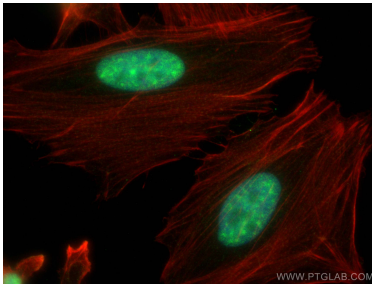
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 30461-1-AP (CDK13 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 30461-1-PBS in a different storage buffer formulation.



1×10^6 K-562 cells were intracellularly stained with 0.4 μ g Anti-Human CDK13 (30461-1-AP) and CoraLite[®]488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 μ g Isotype Control. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011). This data was developed using the same antibody clone with 30461-1-PBS in a different storage buffer formulation.



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). This data was developed using the same antibody clone with 30461-1-PBS in a different storage buffer formulation.

Immunohistochemical analysis of paraffin-embedded 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). This data was developed using the same antibody clone with 30461-1-PBS in a different storage buffer formulation.