

For Research Use Only

CDK2 Recombinant antibody

Catalog Number: 83635-2-RR



Basic Information

Catalog Number: 83635-2-RR	GenBank Accession Number: BC003065	Purification Method: Protein A purification
Size: 1000 ug/ml	GeneID (NCBI): 1017	CloneNo.: 240580G11
Source: Rabbit	UNIPROT ID: P24941	Recommended Dilutions: WB 1:5000-1:50000 IHC 1:50-1:500 IF/ICC 1:50-1:500
Isotype: IgG	Full Name: cyclin-dependent kinase 2	
Immunogen Catalog Number: AG17133	Calculated MW: 298 aa, 34 kDa Observed MW: 30-33 kDa	

Applications

Tested Applications: WB, IHC, IF/ICC, FC (Intra), ELISA	Positive Controls:
Species Specificity: human, rat	WB : MCF-7 cells, K-562 cells, HEK-293 cells, HeLa cells, HepG2 cells, C6 cells
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	IHC : human ovarian cancer, IF/ICC : HepG2 cells,

Background Information

CDK2(Cyclin-dependent kinase 2) is also named as CDKN2 and belongs to the protein kinase superfamily, CMGC Ser/Thr protein kinase family, CDC2/CDKX subfamily. It is involved in the control of the cell cycle; essential for meiosis, but dispensable for mitosis. It has 2 isoforms produced by alternative splicing.

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:

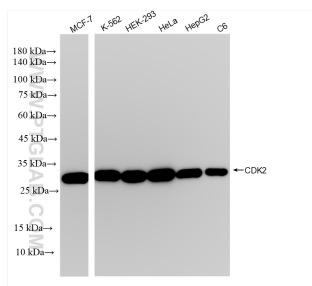
T: 4006900926

E: Proteintech-CN@ptglab.com

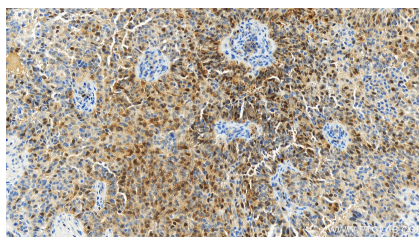
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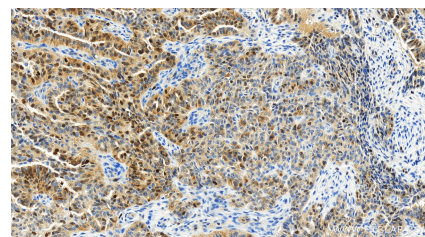
Selected Validation Data



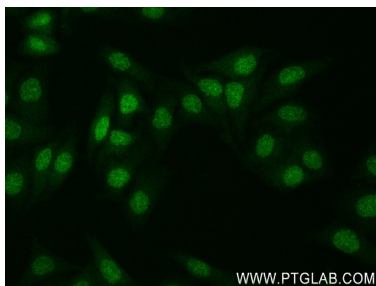
Various lysates were subjected to SDS PAGE followed by western blot with 83635-2-RR (CDK2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



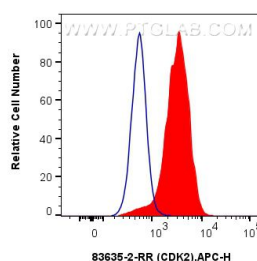
Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 83635-2-RR (CDK2 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



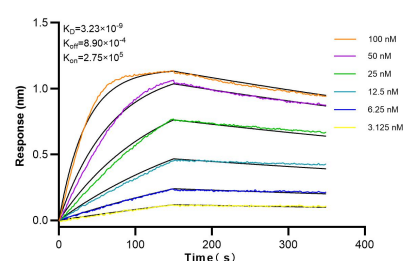
Immunohistochemical analysis of paraffin-embedded human ovarian cancer slide using 83635-2-RR (CDK2 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using CDK2 antibody (83635-2-RR, Clone: 240580G11) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



1×10^6 HeLa cells were intracellularly stained with 0.25 μ g CDK2 Recombinant antibody (83635-2-RR, Clone:240580G11) and APC-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L)(red), or 0.25 μ g Isotype Control (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



Biolayer interferometry (BLI) kinetic assays of 83635-2-RR against Human CDK2 were performed. The affinity constant is 3.23 nM.