

For Research Use Only

CDK4 Recombinant antibody

Catalog Number: 83994-3-RR



Basic Information

Catalog Number: 83994-3-RR	GenBank Accession Number: BC010153	Purification Method: Protein A purification
Size: 100ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 1019	CloneNo.: 241053F10
Source: Rabbit	UNIPROT ID: P11802	Recommended Dilutions: WB 1:1000-1:4000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:50-1:500 IF/ICC 1:200-1:800
Isotype: IgG	Full Name: cyclin-dependent kinase 4	
Immunogen Catalog Number: AG20538	Calculated MW: 34 kDa	
	Observed MW: 30-34 kDa	

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Species Specificity:
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: A431 cells, HeLa cells, MCF-7 cells, HepG2 cells

IP: HeLa cells,

IHC: human cervical squamous cancer tissue,

IF/ICC: MCF-7 cells,

Background Information

Cyclin-dependent kinase-4 (CDK4) is a protein-serine kinase involved in the cell cycle. It is essential for the G1-to S-phase transition during the cell cycle, and its expression is primarily controlled at the transcriptional level (PMID:17253961). The CCND1-CDK4 axis is critical not only in glial tumor cells but also in stromal-derived cells in the surrounding tumor microenvironment, which are vital to sustain tumor outgrowth (PMID:21844184).

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

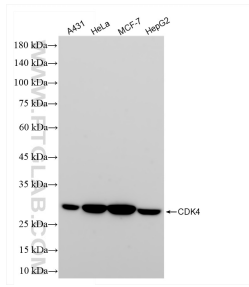
For technical support and original validation data for this product please contact:

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

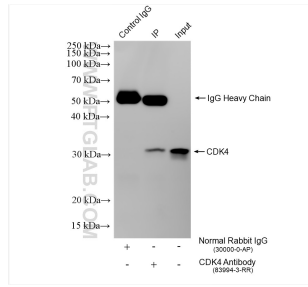
E: proteintech@ptglab.com
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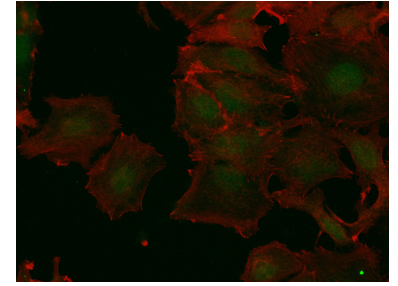
Selected Validation Data



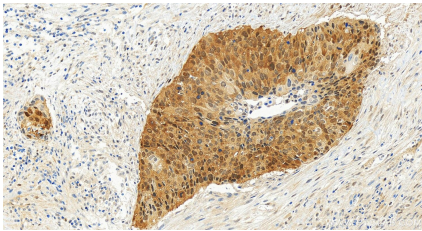
Various lysates were subjected to SDS PAGE followed by western blot with 83994-3-RR (CDK4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



IP result of anti-CDK4 (IP:83994-3-RR, 4ug; Detection:83994-3-RR 1:500) with HeLa cells lysate 1280 ug.



Immunofluorescent analysis of (4% PFA) fixed MCF-7 cells using CDK4 antibody (83994-3-RR, Clone: 241053F10) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Immunohistochemical analysis of paraffin-embedded human cervical squamous cancer tissue slide using 83994-3-RR (CDK4 antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).