For Research Use Only

Cyclin A2 Recombinant antibody

Catalog Number:82148-1-RR

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Basic Information

Catalog Number:
82148-1-RR

Size:
100ul , Concentration: 1000 µg/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG12765

GenBank Accession Number:
BC104783

GeneID (NCBI):
890

UNIPROT ID:
P20248

Full Name:
cyclin A2

Calculated MW:
432 aa, 49 kDa

Observed MW:
52 kDa

Purification Method:
Protein A purification

CloneNo.:
1C23

Recommended Dilutions:
WB 1:5000-1:50000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:500-1:2000
IF/ICC 1:500-1:2000

Applications

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

Species Specificity:
Human, mouse, rat

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-293 cells, HeLa cells, HepG2 cells, Jurkat cells, K-562 cells, NIH/3T3 cells, HSC-T6 cells

IP : HeLa cells,

IHC : mouse colon tissue, rat colon tissue

IF/ICC : HeLa cells,

Background Information

Cyclin A2 belongs to the highly conserved cyclin family, whose members are characterized by a dramatic periodicity in protein abundance through the cell cycle. Cyclins function as regulators of CDK kinases. Different cyclins exhibit distinct expression and degradation patterns which contribute to the temporal coordination of each mitotic event. In contrast to cyclin A1, which is present only in germ cells, this cyclin is expressed in all tissues tested. Cyclin A2 binds and activates CDC2 or CDK2 kinases, and thus promotes both cell cycle G1/S and G2/M transitions. Cyclin A2 could be phosphorylated during the G2/M.

Storage

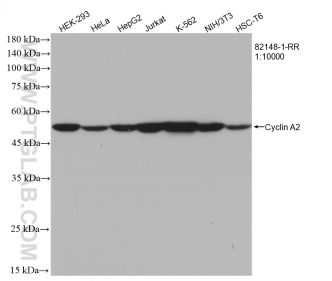
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

***** 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
W: ptglab.com

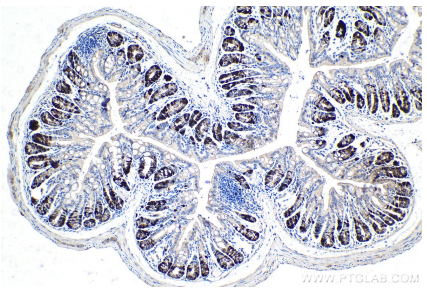
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

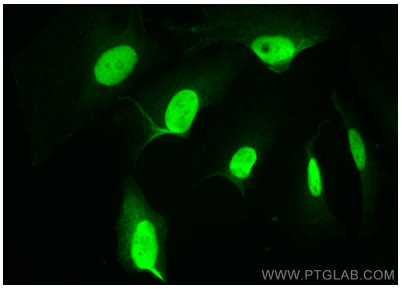


Various lysates were subjected to SDS PAGE followed by western blot with 82148-1-RR (Cyclin A2 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.

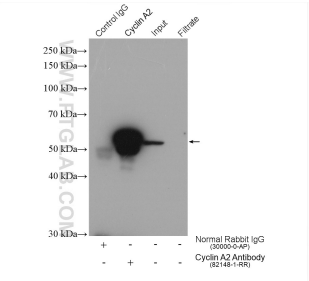
Immunohistochemical analysis of paraffin-embedded rat colon tissue slide using 82148-1-RR (Cyclin A2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



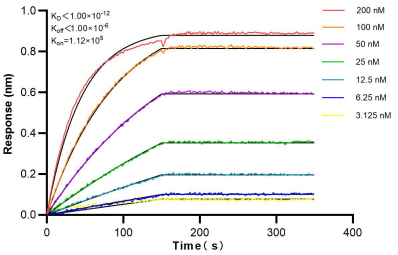
Immunohistochemical analysis of paraffin-embedded mouse colon tissue slide using 82148-1-RR (Cyclin A2 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Cyclin A2 antibody (82148-1-RR, Clone: 1C23) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP result of anti-Cyclin A2 (IP:82148-1-RR, 4ug; Detection:82148-1-RR 1:3000) with HeLa cells lysate 1720 ug.



Biolayer interferometry (BLI) kinetic assays of 82148-1-RR against Human Cyclin A2 were performed. The affinity constant is below 1 pM.