For Research Use Only

Phospho-RB1 (Ser807/811) Polyclonal antibody

Catalog Number:30376-1-AP 22 Publications

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Basic Information

Catalog Number:
30376-1-AP

Size:
100ul , Concentration: 500 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC039060

GeneID (NCBI):
5925

UNIPROT ID:
P06400

Full Name:
retinoblastoma 1

Calculated MW:
928 aa, 106 kDa

Observed MW:
110 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB: 1:2000-1:10000
IHC: 1:300-1:1200
IF/ICC: 1:50-1:500

Applications

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

Cited Applications:
WB, IHC, IF

Species Specificity:
human

Cited Species:
human, mouse

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 : Calyculin A treated Jurkat cells, Jurkat cells

IHC : human ovary cancer tissue,

IF/ICC : Calyculin A treated Jurkat cells,

Background Information

RB1, also named as pp110, pRb and p105 Rb, belongs to the retinoblastoma protein (RB) family. Phosphorylation and dephosphorylation of RB1 is well known to be a key regulator in cell cycle progression in cancer cells. Phosphorylation of RB1 at multiple S/T residues, first by cyclin D-dependent kinases and subsequently by cyclin E-CDK2 in later G1 phase, completely inactivates RB1, enabling the release of E2F from RB1 complexes and activation of E2F-mediated transcription. Monomethylation at Lys810 by SMYD2 enhances phosphorylation at Ser807 and Ser811, and promotes cell cycle progression. (PMID: 22787429, PMID: 21115810, PMID: 32344731)

Notable Publications

Author	Pubmed ID	Journal	Application
Daichi Enomoto	42488713	Oncol Lett	
Sara Verdura	42309995	Cell Death Dis	
Kunpeng Jia	42086830	Commun Biol	WB,IHC,IF

Storage

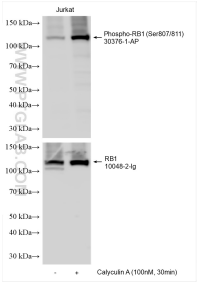
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

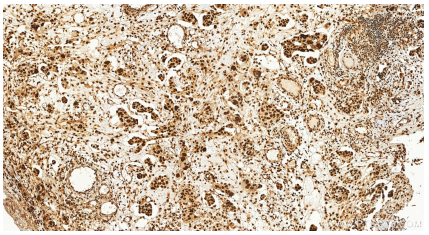
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

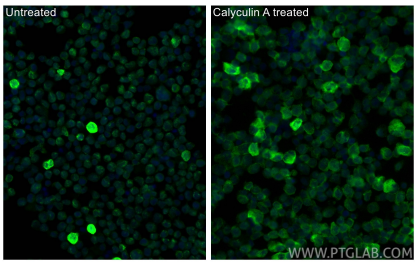
Selected Validation Data



Non-treated and Calyculin A treated Jurkat cells were subjected to SDS PAGE followed by western blot with 30376-1-AP (Phospho-RB1 (Ser807/811) antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with RB1 antibody (10048-2-Ig) subsequently.



Immunohistochemical analysis of paraffin-embedded human ovary cancer tissue slide using 30376-1-AP (Phospho-RB1 (Ser807/811) antibody) at dilution of 1:600 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed Calyculin A treated Jurkat cells using Phospho-RB1 (Ser807/811) antibody (30376-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).