

For Research Use Only

# Phospho-RB1 (Ser807/811) Polyclonal antibody

Catalog Number: 30376-1-AP

4 Publications



## 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

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

Human

Cited Species:

human, mouse

Positive Controls:

WB: Calyculin A treated Jurkat cells, 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
Libo Wang	39040475	Front Pharmacol	WB
Pengqing Nie	38894550	Adv Sci (Weinh)	WB
Jian Wang	38633613	Front Pharmacol	WB

## 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

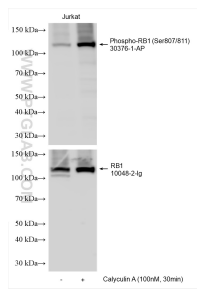
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## Selected Validation Data



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.