Product Datasheet

RB1 antibody

Catalog No: #38368

Package Size: #38368-1 50ul #38368-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

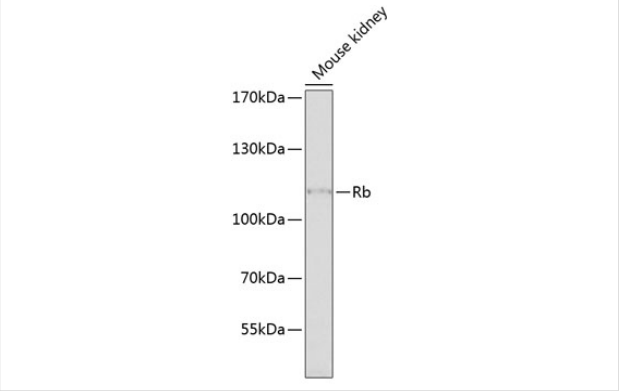
Description

Product Name	RB1 antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were purified by affinity purification using immunogen.
Applications	WB,IF
Species Reactivity	Human,Mouse
Specificity	The antibody detects endogenous level of total RB1 protein.
Immunogen Type	Peptide
Immunogen Description	A synthetic peptide of human RB1.
Target Name	RB1
Other Names	OSRC; RB; p105-Rb; pRb; pp110;
Accession No.	Swiss-Prot#: P06400NCBI Gene ID: 5925
Uniprot	P06400
GeneID	5925;
SDS-PAGE MW	110kd
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

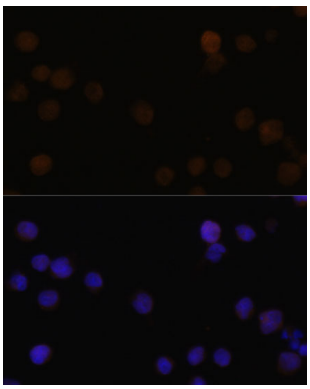
Application Details

WB□1:500 - 1:2000IF□1:50 - 1:200

Images



Western blot analysis of extracts of mouse kidney, using Rb at 1:1000 dilution.



Immunofluorescence analysis of Y79 cells using Rb at dilution of 1:100. Blue: DAPI for nuclear staining.

Background

The retinoblastoma tumor suppressor protein, Rb, regulates cell proliferation by controlling progression through the restriction point within the G1-phase of the cell cycle (1). Rb has three functionally distinct binding domains and interacts with critical regulatory proteins including the E2F family of transcription factors, c-Abl tyrosine kinase, and proteins with a conserved LXCXE motif (2-4). Cell cycle-dependent phosphorylation by a CDK inhibits Rb target binding and allows cell cycle progression (5). Rb inactivation and subsequent cell cycle progression likely requires an initial phosphorylation by cyclin D-CDK4/6 followed by cyclin E-CDK2 phosphorylation (6). Specificity of different CDK/cyclin complexes has been observed in vitro (6-8) and cyclin D1 is required for Ser780 phosphorylation in vivo (9).

Note: This product is for in vitro research use only