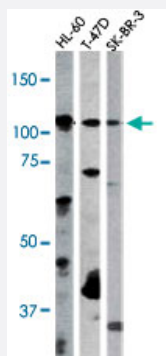


RB1 (phospho S612) polyclonal antibody

Catalog # PAB0597

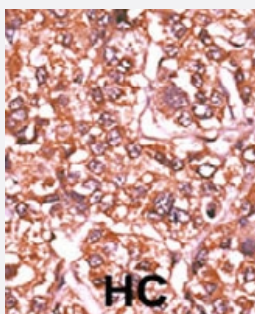
Size 400 uL

Applications



Western Blot (Cell lysate)

The RB1 (phospho S612) polyclonal antibody (Cat # PAB0597) is used in Western blot to detect RB1 in, from left to right, HL-60, T-47D, and SK-BR-3 cell lysates.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with RB1 (phospho S612) polyclonal antibody (Cat # PAB0597) which was peroxidase-conjugated to the secondary antibody followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. HC = hepatocarcinoma

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of RB1.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S612 of human RB1.
Host	Rabbit
Reactivity	Human
Form	Liquid

Purification	Protein G purification
Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

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Gene Info — RB1

Entrez GeneID	5925
Protein Accession#	NP_000312:P06400
Gene Name	RB1
Gene Alias	OSRC, RB, p105-Rb, pRb, pp110
Gene Description	retinoblastoma 1
Omim ID	109800 180200 259500
Gene Ontology	Hyperlink

Gene Summary

The protein encoded by this gene is a negative regulator of the cell cycle and was the first tumor suppressor gene found. The encoded protein also stabilizes constitutive heterochromatin to maintain the overall chromatin structure. The active, hypophosphorylated form of the protein binds transcription factor E2F1. Defects in this gene are a cause of childhood cancer retinoblastoma (RB), bladder cancer, and osteogenic sarcoma. [provided by RefSeq]

Other Designations

OTTHUMP00000018397|retinoblastoma susceptibility protein|retinoblastoma-associated protein

Publication Reference

- [Disruption of the Rb--Raf-1 interaction inhibits tumor growth and angiogenesis.](#)

Dasgupta P, Sun J, Wang S, Fusaro G, Betts V, Padmanabhan J, Sebt SM, Chellappan SP.

Molecular and Cellular Biology 2004 Nov; 24(21):9527.

- [ORF73 of herpesvirus saimiri, a viral homolog of Kaposi's sarcoma-associated herpesvirus, modulates the two cellular tumor suppressor proteins p53 and pRb.](#)

Borah S, Verma SC, Robertson ES.

Journal of Virology 2004 Oct; 78(19):10336.

- [Aberrant expression of pRb and p16\(INK4\), alone or in combination, indicates poor outcome after resection in patients with colorectal carcinoma.](#)

Cui X, Shirai Y, Wakai T, Yokoyama N, Hirano S, Hatakeyama K.

Human Pathology 2004 Oct; 35(10):1189.

Pathway

- [Bladder cancer](#)
- [Cell cycle](#)
- [Chronic myeloid leukemia](#)
- [Glioma](#)
- [Melanoma](#)
- [Non-small cell lung cancer](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)

- [Prostate cancer](#)
- [Small cell lung cancer](#)

Disease

- [Adenocarcinoma](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Chromosomal Instability](#)
- [Chromosome Aberrations](#)
- [Chromosome Deletion](#)
- [Colorectal Neoplasms](#)
- [Cystadenocarcinoma](#)
- [Disease Progression](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Head and Neck Neoplasms](#)
- [Liver Neoplasms](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Neoplasm Invasiveness](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Pancreatic cancer](#)
- [Pancreatic Neoplasms](#)
- [Pulmonary Disease](#)

- [Retinal Neoplasms](#)
- [Retinoblastoma](#)
- [Tobacco Use Disorder](#)