



Rb

Mouse Monoclonal antibody(Mab)
Catalog # AD80111

Specification

Rb - Product info

Application IHC-P
Primary Accession P06400
Reactivity Human
Host Mouse
Clonality Monoclonal
Calculated MW 106159

Rb - Additional info

Gene ID 5925
Gene Name RB1

Other Names

Retinoblastoma-associated protein, p105-Rb, p110-RB1, pRb, Rb, pp110, RB1

Dilution

IHC-P~~Ready-to-use

Storage

Maintain refrigerated at 2-8°C

Precautions Rb Gene Protein Antibody is for research

use only and not for use in diagnostic or

therapeutic procedures.

Rb - Protein Information

Name RB1

Function Key regulator of entry into cell division

that acts as a tumor suppressor. Promotes G0-G1 transition when phosphorylated by CDK3/cyclin-C. Acts as a transcription repressor of E2F1 target genes. The underphosphorylated, active form of RB1 interacts with E2F1 and represses its transcription activity, leading to cell cycle

arrest. Directly involved in

heterochromatin formation by maintaining

overall chromatin structure and, in

particular, that of constitutive

heterochromatin by stabilizing histone methylation. Recruits and targets histone methyltransferases SUV39H1, KMT5B and





KMT5C, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Inhibits the intrinsic kinase activity of TAF1. Mediates transcriptional repression by SMARCA4/BRG1 by recruiting a histone deacetylase (HDAC) complex to the c-FOS promoter. In resting neurons, transcription of the c-FOS promoter is inhibited by BRG1-dependent recruitment of a phospho-RB1-HDAC1 repressor complex. Upon calcium influx, RB1 is dephosphorylated by calcineurin, which leads to release of the repressor complex (By similarity). Nucleus.

Expressed in the retina.

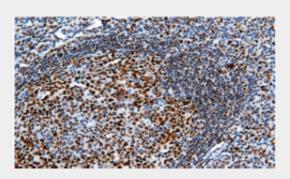
Cellular Location
Tissue Location

Rb - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Rb - Images



Tonsil