

**Rb**  
**Mouse Monoclonal antibody(Mab)**  
**Catalog # AD80111**

## Specification

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### Rb - Product info

Application	<b>IHC-P</b>
Primary Accession	<a href="#">P06400</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Calculated MW	<b>106159</b>

### Rb - Additional info

Gene ID	<b>5925</b>
Gene Name	<b>RB1</b>
<b>Other Names</b>	
Retinoblastoma-associated protein, p105-Rb, p110-RB1, pRb, Rb, pp110, RB1	

### Dilution

IHC-P~~Ready-to-use

Storage	<b>This product is stored at 2-8 °C, please use it within the expiration date.</b>
Precautions	<b>Rb Gene Protein Antibody is for research use only and not for use in diagnostic or therapeutic procedures.</b>

### Rb - Protein Information

**Name** RB1

<b>Function</b>	<b>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</b>
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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

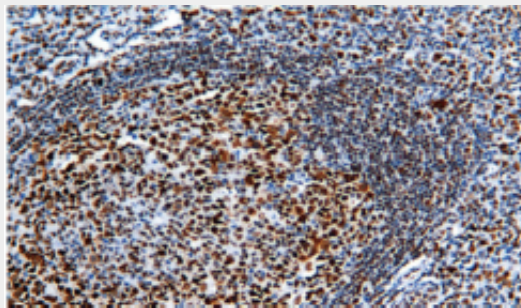
Tissue Location

### Rb - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Rb - Images



Tonsil