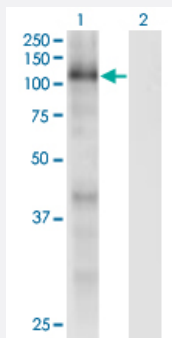


# RBL1 monoclonal antibody (M01), clone 1A5

Catalog # H00005933-M01

Size 100 ug

## Applications

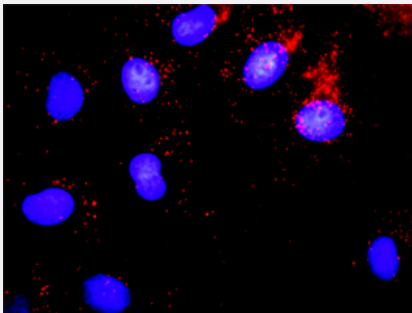


### Western Blot (Transfected lysate)

Western Blot analysis of RBL1 expression in transfected 293T cell line by RBL1 monoclonal antibody (M01), clone 1A5.

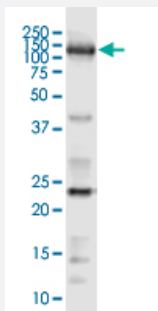
Lane 1: RBL1 transfected lysate (Predicted MW: 111.54 kDa).

Lane 2: Non-transfected lysate.



### In situ Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between MYBL2 and RBL1. Mahlavu cells were stained with anti-MYBL2 rabbit purified polyclonal 1:1200 and anti-RBL1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).



Western Blot detection against Immunogen (37.73 kDa) .

## Specification

### Product Description

Mouse monoclonal antibody raised against a partial recombinant RBL1.

<b>Immunogen</b>	RBL1 (AAH32247, 905 a.a. ~ 1014 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
<b>Sequence</b>	IDCDLEDATKTPDCSSGPVKEERGDLIKFYNTIYVGRVKSFALKYDLANQDHMMMDAPPLSPFPHIK QQPGSPRRISQQHSMSPHKNGSGLTPRSALLYKFNGSPSKVR
<b>Host</b>	Mouse
<b>Reactivity</b>	Human
<b>Interspecies Antigen Sequence</b>	Mouse (91); Rat (92)
<b>Isotype</b>	IgG1 Kappa
<b>Quality Control Testing</b>	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.73 KDa) .
<b>Storage Buffer</b>	In 1x PBS, pH 7.4
<b>Storage Instruction</b>	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot (Transfected lysate)

Western Blot analysis of RBL1 expression in transfected 293T cell line by RBL1 monoclonal antibody (M01), clone 1A5.

Lane 1: RBL1 transfected lysate (Predicted MW: 111.54 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

- In situ* Proximity Ligation Assay (Cell)

Proximity Ligation Analysis of protein-protein interactions between MYBL2 and RBL1. Mahlavu cells were stained with anti-MYBL2 rabbit purified polyclonal 1:1200 and anti-RBL1 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).

## Gene Info — RBL1

Entrez GeneID	<a href="#">5933</a>
GeneBank Accession#	<a href="#">BC032247</a>
Protein Accession#	<a href="#">AAH32247</a>
Gene Name	RBL1
Gene Alias	CP107, MGC40006, PRB1, p107
Gene Description	retinoblastoma-like 1 (p107)
Omim ID	<a href="#">116957</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	<p>The protein encoded by this gene is similar in sequence and possibly function to the product of the retinoblastoma 1 (RB1) gene. The RB1 gene product is a tumor suppressor protein that appears to be involved in cell cycle regulation, as it is phosphorylated in the S to M phase transition and is dephosphorylated in the G1 phase of the cell cycle. Both the RB1 protein and the product of this gene can form a complex with adenovirus E1A protein and SV40 large T-antigen, with the SV40 large T-antigen binding only to the unphosphorylated form of each protein. In addition, both proteins can inhibit the transcription of cell cycle genes containing E2F binding sites in their promoters. Due to the sequence and biochemical similarities with the RB1 protein, it is thought that the protein encoded by this gene may also be a tumor suppressor. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq]</p>
Other Designations	107 kDa retinoblastoma-associated protein OTTHUMP00000030892 OTTHUMP00000030893 cellular protein 107 retinoblastoma-like protein 1

## Publication Reference

- [Mutation of SPINOPHILIN \(PPP1R9B\) found in human tumors promotes the tumorigenic and stemness properties of cells.](#)

Eva M Verdugo-Sivianes, Ana M Rojas, Sandra Muñoz-Galván, Daniel Otero-Albiol, Amancio Carnero.

Theranostics 2021 Jan; 11(7):3452.

Application: WB-Ce, WB-Tr, Human, MDA-MB-468, T-47D cells

## Pathway

- [Cell cycle](#)
- [TGF-beta signaling pathway](#)

## Disease

- [Adenocarcinoma](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Ovarian Neoplasms](#)
- [Tobacco Use Disorder](#)