# Rabbit RBL2 Polyclonal Antibody | anti-RBL2 antibody

Phospho-RBL2 (Ser639) Antibody

| CATALOG # | HOST | REACTIVITY | APPLICATIONS |
|---|---|---|---|
| **AAA329889** | **Rabbit** | **Human, Mouse, RatPredicted Reactivity: Pig (100%), Bovine (100%), Horse (89%), Sheep (100%), Rabbit (100%), Dog (100%)** | **ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot** |

## PRODUCT SYNONYMS

RBL2; Polyclonal Antibody; Phospho-RBL2 (Ser639) Antibody; 130kDa retinoblastoma associated protein; 130kDa retinoblastoma-associated protein; IB4; p130; PPAR-alpha-interacting complex protein 128; PRB2; Rb2; Rbl2; RBL2_HUMAN; RBR 2; RBR-2; RBR2; Retinoblastoma like 2; Retinoblastoma-like protein 2; Retinoblastoma-related protein 2; RIC128; anti-RBL2 antibody

## PRODUCT SPECIFICATIONS

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|---|---|
| **Host** | Rabbit |
| **Reactivity** | Human, Mouse, Rat<br>Predicted Reactivity: Pig (100%), Bovine (100%), Horse (89%), Sheep (100%), Rabbit (100%), Dog (100%) |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Specificity** | Phospho-RBL2 (Ser639) Antibody detects endogenous levels of RBL2 only when phosphorylated at Ser639. |
| **Purity/Purification** | The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns. |
| **Form/Format** | Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| **Concentration** | 1mg/ml (varies by lot) |
| **Applicable Applications for anti-RBL2 antibody** | ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| **Immunogen** | A synthesized peptide derived from human RBL2 around the phosphorylation site of Ser639. |
| **Conjugation** | Unconjugated |
| **Fragment** | Fab fragment |
| **Post Translational Modifications** | During G0 and early G1 phase of the cell cycle, phosphorylated on Ser-639 and on 5 sites within the domain B. Phosphorylation on Ser-672 in G1 leads to its ubiquitin-dependent proteolysis. |
| **Subunit Structure** | Interacts with AATF. Interacts with KMT5B, KMT5C and USP4 (By similarity). Component of the DREAM complex (also named LINC complex) at least composed of E2F4, E2F5, LIN9, LIN37, LIN52, LIN54, MYBL1, MYBL2, RBL1, RBL2, RBBP4, TFDP1 and TFDP2. The complex exists in quiescent cells where it represses cell cycle-dependent genes. It dissociates in S phase when LIN9, LIN37, LIN52 and LIN54 form a subcomplex that binds to MYBL2. Interacts with RINT1. Interacts with PML (isoform PML-1, isoform PML-2, isoform PML-3, isoform PML-4 and isoform PML-5). Interacts with RBBP9 (By similarity). |
| **Similarity** | Belongs to the retinoblastoma protein (RB) family. |
| **Subcellular Location** | Nucleus. |
| **Preparation and Storage** | Store at -20 degree C. Stable for 12 months from date of receipt. |

## IMAGES

**Application Data**
At 25 degree C. Samples were then incubated with primary Ab(At 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody.The nuclear counter stain is DAPI(blue).

**IHC (Immunohiostchemistry)**
Staining Rat brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

**WB (Western Blot)**
Western blot analysis of RBL2 (Phospho-Ser639) using TNF treated Jurkat whole cell lysates.-/+ means absence or presence of N peptideï¼ˆnon-phospho peptide) and P peptide(phospho peptide).

## ADDITIONAL INFORMATION

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|---|---|
| **Related Product Information for anti-RBL2 antibody** | Key regulator of entry into cell division. 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 KMT5B and KMT5C, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. Potent inhibitor of E2F-mediated trans-activation, associates preferentially with E2F5. Binds to cyclins A and E. Binds to and may be involved in the transforming capacity of the adenovirus E1A protein. May act as a tumor suppressor. |

## NCBI AND UNIPROT INFORMATION

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| **NCBI GI #** | 172072597 |
| **NCBI GeneID** | 5934 |
| **NCBI Accession #** | NP_005602.3 |
| **NCBI GenBank Nucleotide #** | NM_005611.3 |
| **UniProt Accession #** | Q08999; Q15073; Q16084; Q92812 |
| **Molecular Weight** | 128,367 Da |
| **NCBI Official Full Name** | retinoblastoma-like protein 2 |
| **NCBI Official Synonym Full Names** | retinoblastoma-like 2 (p130) |
| **NCBI Official Symbol** | RBL2 |
| **NCBI Official Synonym Symbols** | Rb2; P130 |
| **NCBI Protein Information** | retinoblastoma-like protein 2; PRB2; RBR-2; retinoblastoma-related protein 2; 130 kDa retinoblastoma-associated protein |
| **UniProt Protein Name** | Retinoblastoma-like protein 2 |
| **UniProt Gene Name** | **RBL2** |
| **UniProt Synonym Gene Names** | RB2; p130; RBR-2 |
| **UniProt Entry Name** | RBL2_HUMAN |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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