

RBL2 (Phospho Thr642) Rabbit pAb

CatalogNo: YP1851 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse, Rat

Applications

- IHC, WB

MW

- 125kD (Calculated)

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-2000

IHC 1:50-200

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen Synthesized peptide derived from human RBL2 (Phospho Thr642)

Specificity This antibody detects endogenous levels of RBL2 (Phospho Thr642) Rabbit pAb at Human, Mouse, Rat. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):PLtPR

| Target Information

Gene name RBL2 RB2

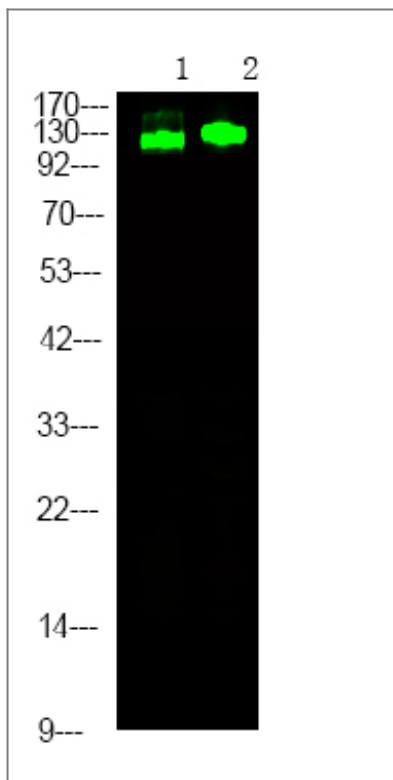
Protein Name Retinoblastoma-like protein 2 (130 kDa retinoblastoma-associated protein) (p130) (Retinoblastoma-related protein 2) (RBR-2) (pRb2)

Organism	Gene ID	UniProt ID
Human	5934 ;	Q08999 ;
Mouse	19651 ;	Q64700 ;
Rat	81758 ;	O55081 ;

Cellular Localization Nucleus.

Function Function: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 SUV420H1 and SUV420H2 , 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. ,miscellaneous:G0-restricted expression. ,PTM: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. ,similarity:Belongs to the retinoblastoma protein (RB) family. ,subunit:Interacts with AATF. Interacts with SUV420H1 and SUV420H2 (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. ,

| Validation Data



Western Blot analysis of 1 HeLa cell, 22 Serum-free treated ,using primary antibody at 1:1000 dilution. Secondary antibody (catalog#:RS23920) was diluted at 1:10000

Contact information

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