

Product datasheet for **TA354365**

Rb (RB1) Mouse Monoclonal Antibody

Product data:

Product Type:	Primary Antibodies
Recommended Dilution:	WB 0.1-1 µg/ml ELISA 0.01-0.1 µg/ml IP 2-5 µg/ml IHC 2-10 µg/ml FC 5-10 µg/ml
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	The recombinant protein from 703aa-772 aa of human Retinoblastoma.
Formulation:	This affinity purified antibody is supplied in sterile Phosphate buffered saline (pH7.2) containing antibody stabilizer.
Purification:	The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	RB transcriptional corepressor 1
Database Link:	NP_000312 Entrez Gene 5925 Human P06400
Background:	The retinoblastoma (RB), a tumor suppressor protein, is a negative regulator of the cell cycle. This protein stabilizes constitutive heterochromatin to maintain the overall chromatin structure. It can be inactivated by phosphorylation during G1/S stage by one or more cyclin-dependent kinases (CDKs). Different phosphorylation sites of RB may require more than one different CDKs which leads to a differential regulation of downstream effectors' pathways. In the hypophosphorylated state, pRB is active and binds transcription factor E2F1, carries out its role as a tumor suppressor by inhibiting cell cycle progression. Phosphorylation by CDKs inactivates pRB which causes childhood cancer retinoblastoma (RB), bladder cancer, and osteogenic sarcoma. pRB is widely expressed in a variety of human tissues including mammary carcinoma, esophageal cancer, squamous cell carcinoma and cervical cancer.
Synonyms:	OSRC; p105-Rb; pp110; PPP1R130; pRb; RB



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Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: Bladder cancer, Cell cycle, Chronic myeloid leukemia, Glioma, Melanoma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Small cell lung cancer