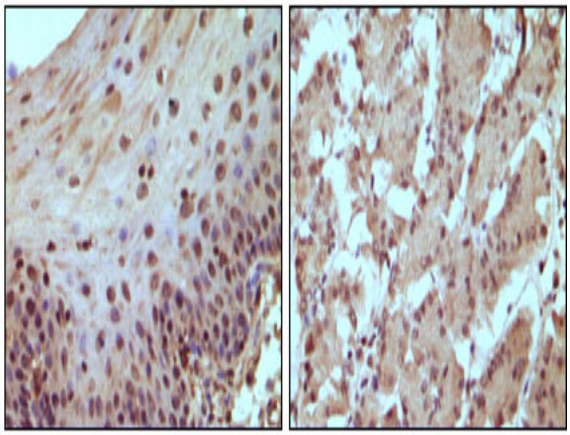
Best Tools for immunology Research

Rb Monoclonal Antibody

Catalog No :	YM0553
Reactivity :	Human
Applications :	IHC;IF;ELISA
Target :	Rb
Fields :	>>Endocrine resistance;>>Cell cycle;>>Cellular senescence;>>Cushing syndrome;>>Hepatitis C;>>Hepatitis B;>>Human cytomegalovirus infection;>>Human papillomavirus infection;>>Human T-cell leukemia virus 1 infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Epstein-Barr virus infection;>>Pathways in cancer;>>Viral carcinogenesis;>>Chemical carcinogenesis - receptor activation;>>Pancreatic cancer;>>Glioma;>>Prostate cancer;>>Melanoma;>>Bladder cancer;>>Chronic myeloid leukemia;>>Small cell lung cancer;>>Non-small cell lung cancer;>>Breast cancer;>>Hepatocellular carcinoma;>>Gastric cancer
Gene Name :	RB1
Protein Name :	Retinoblastoma-associated protein
Human Gene Id :	5925
Human Swiss Prot No :	P06400
Mouse Swiss Prot No :	P13405
Immunogen :	Purified recombinant fragment of human Rb expressed in E. Coli.
Specificity :	Rb Monoclonal Antibody detects endogenous levels of Rb protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	IHC 1:200 - 1:1000. ELISA: 1:10000.. IF 1:50-200
	Affinity purification

Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Cell Pathway :	Stem cell pathway; Cell_Cycle_G1S;Cell_Cycle_G2M_DNA; Protein_Acetylation
P References :	1. Oncogene 19: 562-570. 2. Cell 81: 323-330.
Background :	The protein encoded by this gene is a negative regulator of the cell cycle and was the first tumor suppressor gene found. The encoded protein also stabilizes constitutive heterochromatin to maintain the overall chromatin structure. The active, hypophosphorylated form of the protein binds transcription factor E2F1. Defects in this gene are a cause of childhood cancer retinoblastoma (RB), bladder cancer, and osteogenic sarcoma. [provided by RefSeq, Jul 2008],
Function :	disease:Defects in RB1 are a cause of bladder cancer [MIM:109800].,disease:Defects in RB1 are a cause of osteogenic sarcoma [MIM:259500].,disease:Defects in RB1 are the cause of childhood cancer retinoblastoma (RB) [MIM:180200]. RB is a congenital malignant tumor that arises from the nuclear layers of the retina. It occurs in about 1:20'000 live births and represents about 2% of childhood malignancies. It is bilateral in about 30% of cases. Although most RB appear sporadically, about 20% are transmitted as an autosomal dominant trait with incomplete penetrance. The diagnosis is usually made before the age of 2 years when strabismus or a gray to yellow reflex from pupil ("cat eye") is investigated.,function:Key regulator of entry into cell division that acts as a tumor suppressor. Acts as a transcription repressor of E2F1 target genes. The underphosphorylated, active form of RB1 interacts
Subcellular Location :	Nucleus . During keratinocyte differentiation, acetylation by KAT2B/PCAF is required for nuclear localization. .
Expression :	Expressed in the retina. Expressed in foreskin keratinocytes (at protein level) (PubMed:20940255).
Sort :	14031
No4 :	1
Host :	Mouse
Modifications :	Unmodified

Products Images



Immunohistochemistry staining of paraffin-embedded human normal esophagus (A) and stomach (B) tissue, showing nucleus localization with DAB staining using Rb Monoclonal Antibody.