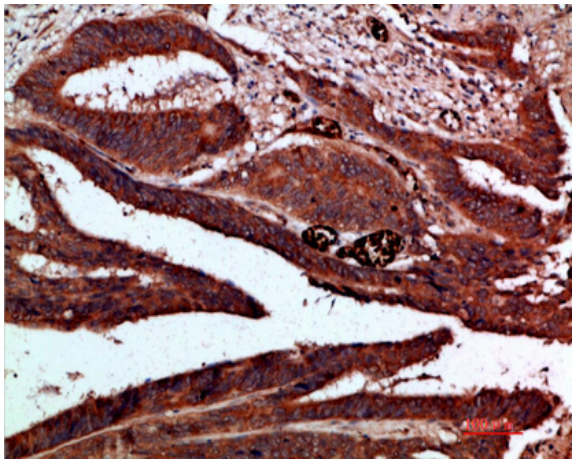
Best Tools for immunology Research

Cdk6 Polyclonal Antibody

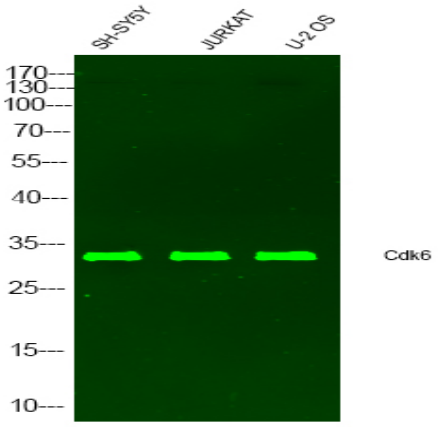
Catalog No :	YT5884
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	Cdk6
Fields :	>>Cell cycle;>>p53 signaling pathway;>>PI3K-Akt signaling pathway;>>Cellular senescence;>>Cushing syndrome;>>Hepatitis C;>>Measles;>>Human cytomegalovirus infection;>>Influenza A;>>Human papillomavirus infection;>>Kaposi sarcoma-associated herpesvirus infection;>>Epstein-Barr virus infection;>>Pathways in cancer;>>Viral carcinogenesis;>>MicroRNAs in cancer;>>Pancreatic cancer;>>Glioma;>>Melanoma;>>Chronic myeloid leukemia;>>Small cell lung cancer;>>Non-small cell lung cancer;>>Breast cancer;>>Hepatocellular carcinoma
Gene Name :	CDK6 CDKN6
Protein Name :	Cyclin-dependent kinase 6 (EC 2.7.11.22) (Cell division protein kinase 6) (Serine/threonine-protein kinase PLSTIRE)
Human Gene Id :	1021
Human Swiss Prot No :	Q00534
Mouse Gene Id :	12571
Mouse Swiss Prot No :	Q64261
Immunogen :	Synthetic peptide from human protein at AA range: 280-325
Specificity :	The antibody detects endogenous Cdk6
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
	WB 1:500-2000,IHC 1:500-200, ELISA 1:10000-20000. IF 1:50-200

Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	34kD
Cell Pathway :	Cell_Cycle_G1S;Cell_Cycle_G2M_DNA;p53;Pathways in cancer;Pancreatic cancer;Glioma;Melanoma;Chronic myeloid leukemia;Small cell lung cancer;Non-small cell lung cancer;
Background :	cyclin dependent kinase 6(CDK6) Homo sapiens The protein encoded by this gene is a member of the cyclin-dependent protein kinase (CDK) family. CDK family members are highly similar to the gene products of Saccharomyces cerevisiae cdc28, and Schizosaccharomyces pombe cdc2, and are known to be important regulators of cell cycle progression. This kinase is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression and G1/S transition. The activity of this kinase first appears in mid-G1 phase, which is controlled by the regulatory subunits including D-type cyclins and members of INK4 family of CDK inhibitors. This kinase, as well as CDK4, has been shown to phosphorylate, and thus regulate the activity of, tumor suppressor protein Rb. Expression of this gene is up-regulated in some types of cancer. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefS
Function :	catalytic activity:ATP + a protein = ADP + a phosphoprotein.,function:Probably involved in the control of the cell cycle. Interacts with D-type G1 cyclins.,polymorphism:Genetic variations in CDK6 influences stature as a quantitative trait type 11 (STQTL11) [MIM:612223]. Adult height is an easily observable and highly heritable complex continuous trait. Because of this, it is a model trait for studying genetic influence on quantitative traits.,similarity:Belongs to the protein kinase superfamily.,similarity:Belongs to the protein kinase superfamily. CMGC Ser/Thr protein kinase family. CDC2/CDKX subfamily.,similarity:Contains 1 protein kinase domain.,
Subcellular Location :	Cytoplasm. Nucleus. Cell projection, ruffle. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Localized to the ruffling edge of spreading fibroblasts. Kinase activity only in nucleus. Localized to the cytosol of neurons and showed prominent staining around either side of the nucleus (By similarity). Present in the cytosol and in the nucleus in interphase cells and at the centrosome during mitosis from prophase to telophase (PubMed:23918663). .
Expression :	Expressed ubiquitously. Accumulates in squamous cell carcinomas, proliferating hematopoietic progenitor cells, beta-cells of pancreatic islets of Langerhans, and neuroblastomas. Reduced levels in differentiating cells.

Products Images



Immunohistochemical analysis of paraffin-embedded human-colon-cancer, antibody was diluted at 1:200



Western Blot analysis of varius cell lysis. Primary Antibody was diluted at 1:1000. Secondary antibody(catalog#:RS23920 was diluted at 1:10000