



Cdk6 Monoclonal Antibody

Catalog No	YP-mAb-10643
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CDK6 CDKN6
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	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	CDKN6;Cell division protein kinase 6;Cyclin dependent kinase 6;Cyclin-dependent kinase 6;EC:2.7.11.22;Cdk6;CDK6 CDKN6;Cyclin-dependent kinase 6 (EC 2.7.11.22) (Cell division protein kinase 6) (Serine/threonine-protein kinase PLSTIRE);Cyclin-dependent kinase 6 (EC 2.7.11.22;Serine/threonine-protein kinase PLSTIRE)
Observed Band	34kD
Calculated Molecular Weight	34kD
Cell Pathway	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).
Tissue Specificity	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.



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.,

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]

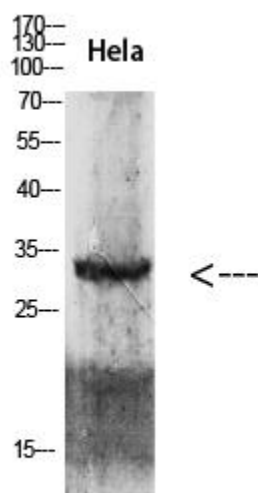
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Cdk6 Monoclonal Antibody