

Product datasheet for **TA383972S**

CDK6 Rabbit Monoclonal Antibody [Clone ID: R03-2G5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R03-2G5
Applications:	IF, WB
Recommended Dilution:	WB: 1/1000 ICC/IF: 1/50-1/100
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human Cdk6
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 37 kDa; Observed MW: 37 kDa
Gene Name:	cyclin-dependent kinase 6
Database Link:	Entrez Gene 1021 Human Q00534



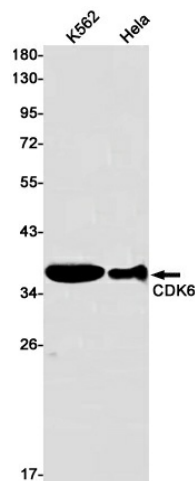
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Background:

Swiss-Prot Acc.Q00534. Serine/threonine-protein kinase involved in the control of the cell cycle and differentiation; promotes G1/S transition. Phosphorylates pRB/RB1 and NPM1. Interacts with D-type G1 cyclins during interphase at G1 to form a pRB/RB1 kinase and controls the entrance into the cell cycle. Involved in initiation and maintenance of cell cycle exit during cell differentiation; prevents cell proliferation and regulates negatively cell differentiation, but is required for the proliferation of specific cell types (e.g. erythroid and hematopoietic cells). Essential for cell proliferation within the dentate gyrus of the hippocampus and the subventricular zone of the lateral ventricles. Required during thymocyte development. Promotes the production of newborn neurons, probably by modulating G1 length. Promotes, at least in astrocytes, changes in patterns of gene expression, changes in the actin cytoskeleton including loss of stress fibers, and enhanced motility during cell differentiation. Prevents myeloid differentiation by interfering with RUNX1 and reducing its transcription transactivation activity, but promotes proliferation of normal myeloid progenitors. Delays senescence. Promotes the proliferation of beta-cells in pancreatic islets of Langerhans. May play a role in the centrosome organization during the cell cycle phases (PubMed:23918663).

Synonyms:

MGC59692; PLSTIRE

Product images:

Western blot detection of CDK6 in K562, HeLa cell lysates using CDK6 Rabbit mAb (1:1000 diluted). Predicted band size: 37 kDa. Observed band size: 37 kDa.