ARG51829
anti-CDK6 phospho (Tyr13) antibody

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes CDK6 phospho (Tyr13)
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	CDK6
Species	Human
Immunogen	Peptide sequence around phosphorylation site of tyrosine 13 (Q-Q-Y(p)-E-C) derived from Human CDK6.
Conjugation	Un-conjugated
Alternate Names	Cell division protein kinase 6; PLSTIRE; EC 2.7.11.22; Serine/threonine-protein kinase PLSTIRE; MCPH12; Cyclin-dependent kinase 6

Application Instructions

Application table

Application	Dilution
ICC/IF	1:100 - 1:200
IHC-P	1:50 - 1:100
WB	1:500 - 1:1000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

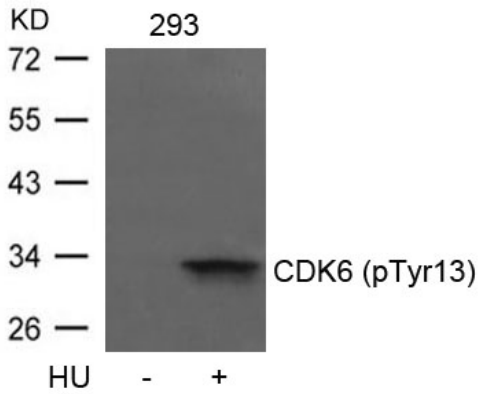
Form	Liquid
Purification	Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Buffer	PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Concentration	1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

	cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

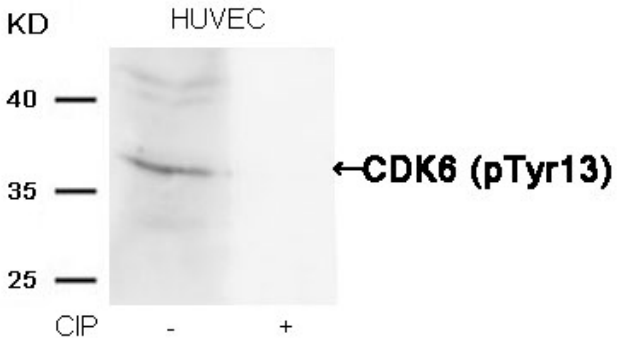
Database links	GeneID: 1021 Human GeneID: 12571 Mouse Swiss-port # Q00534 Human Swiss-port # Q64261 Mouse
Gene Symbol	CDK6
Gene Full Name	cyclin-dependent kinase 6
Background	Probably involved in the control of the cell cycle. Interacts with D-type G1 cyclins.
Function	Serine/threonine-protein kinase 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). [UniProt]
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Gene Regulation antibody
Calculated Mw	37 kDa
PTM	Thr-177 phosphorylation and Tyr-24 dephosphorylation promotes kinase activity.

Images



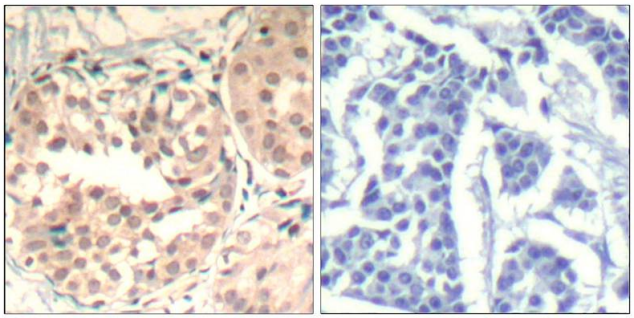
ARG51829 anti-CDK6 phospho (Tyr13) antibody WB image

Western blot: Extracts from 293 cells untreated or treated with HU stained with ARG51829 anti-CDK6 phospho (Tyr13) antibody.



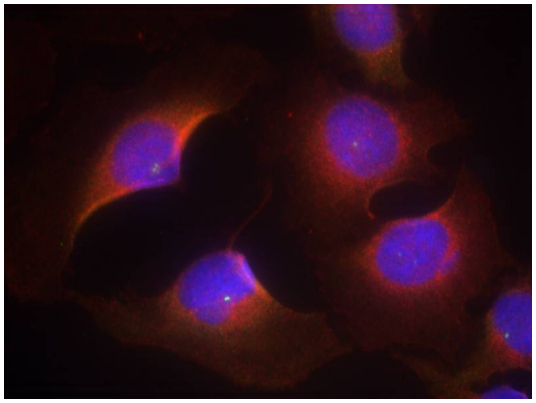
ARG51829 anti-CDK6 phospho (Tyr13) antibody WB image

Western blot: Extracts from HUVEC cells, treated with calf intestinal phosphatase (CIP), stained with ARG51829 anti-CDK6 phospho (Tyr13) antibody.



ARG51829 anti-CDK6 phospho (Tyr13) antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human breast carcinoma tissue stained with ARG51829 anti-CDK6 phospho (Tyr13) antibody (left) or the same antibody preincubated with blocking peptide (right).



ARG51829 anti-CDK6 phospho (Tyr13) antibody ICC/IF image

Immunofluorescence: methanol-fixed HeLa cells stained with ARG51829 anti-CDK6 phospho (Tyr13) antibody.