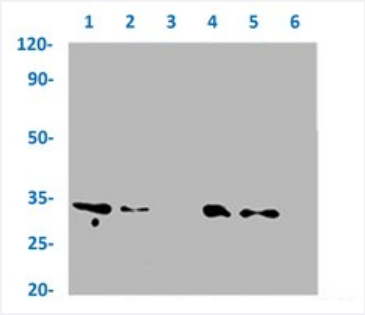
RecomAb™ Sm Size

CDK1/CDK2/CDK3 (phospho T14) recombinant monoclonal antibody, clone 4C12

Catalog # RAB08080 Size 50 uL

Applications



Western Blot

Western blot analysis of
Lane 1: Hela whole cell lysate (treated with Calyculin A 100 nM/60 mins),
Lane 2: Hela whole cell lysate (treated with EGF 100 ng/mL/20 mins),
Lane 3: Hela whole cell lysate (not treated),
Lane 4: A549 whole cell lysate (treated with Calyculin A 100 nM/60 mins),
Lane 5: A549 whole cell lysate (treated with EGF 100 ng/mL/20 mins) and
Lane 6: A549 whole cell lysate (not treated) with CDK1/CDK2/CDK3 (phospho T14) recombinant monoclonal antibody.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human CDK1/CDK2/C.DK3.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g T14 of human CDK1/CDK2/CDK3.
Theoretical MW (kDa)	Calculated MW: 34 kD
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography

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Isotype	IgG
Recommend Usage	ELISA Western Blot (1:500-1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150mM NaCl, 50% glycerol and 0.02% sodium azide)
Storage Instruction	Store at -20 °C or -80 °C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western blot analysis of
  Lane 1: Hela whole cell lysate (treated with Calyculin A 100 nM/60 mins),
  Lane 2: Hela whole cell lysate (treated with EGF 100 ng/mL/20 mins),
  Lane 3: Hela whole cell lysate (not treated),
  Lane 4: A549 whole cell lysate (treated with Calyculin A 100 nM/60 mins),
  Lane 5: A549 whole cell lysate (treated with EGF 100 ng/mL/20 mins) and
  Lane 6: A549 whole cell lysate (not treated) with CDK1/CDK2/CDK3 (phospho T14) recombinant monoclonal antibody.

Gene Info — CDC2

Entrez GeneID	983
Protein Accession#	P06493;P24941;Q00526
Gene Name	CDC2
Gene Alias	CDC28A, CDK1, DKFZp686L20222, MGC111195
Gene Description	cell division cycle 2, G1 to S and G2 to M
Omim ID	116940
Gene Ontology	Hyperlink

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Gene Summary	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting f actor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle. Mitot ic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phos phorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for thi s gene. [provided by RefSeq
Other Designations	OTTHUMP00000019660|cell cycle controller CDC2|cell division control protein 2 homolog|cell div ision cycle 2 protein|cyclin-dependent kinase 1|p34 protein kinase

Gene Info — CDK2

Entrez GeneID	1017
Protein Accession#	P06493;P24941;Q00526
Gene Name	CDK2
Gene Alias	p33(CDK2)
Gene Description	cyclin-dependent kinase 2
Omim ID	116953
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein ki nase is highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2. It is a cata lytic subunit of the cyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycle G1/S phase transition. This protein associates with and regul ated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CD KN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by its protein phosphorylation. Two a lternatively spliced variants and multiple transcription initiation sites of this gene have been report ed. [provided by RefSeq
Other Designations	cdc2-related protein kinase|cell devision kinase 2|p33 protein kinase

Gene Info — CDK3

Entrez GeneID	1018
Protein Accession#	P06493;P24941;Q00526
Gene Name	CDK3

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Gene Alias	-
Gene Description	cyclin-dependent kinase 3
Omim ID	123828
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a member of the cyclin-dependent protein kinase family. The protein promote s entry into S phase, in part by activating members of the E2F family of transcription factors. The protein also associates with cyclin C and phosphorylates the retinoblastoma 1 protein to promote exit from G0. [provided by RefSeq
Other Designations	-

Pathway

- Cell cycle
- Cell cycle
- Gap junction
- p53 signaling pathway
- p53 signaling pathway
- Pathways in cancer
- Prostate cancer
- Small cell lung cancer

Disease

- Alzheimer disease
- Azoospermia
- Breast cancer
- Breast cancer
- Breast Neoplasms
- Breast Neoplasms

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- Chromosome Aberrations
- Dementia
- Diabetes Mellitus
- Genetic Predisposition to Disease
- Genetic Predisposition to Disease
- Kidney Failure
- Lung Neoplasms
- Lymphoma
- Neoplasm Invasiveness
- Ovarian cancer
- Ovarian Neoplasms
- Pulmonary Disease

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