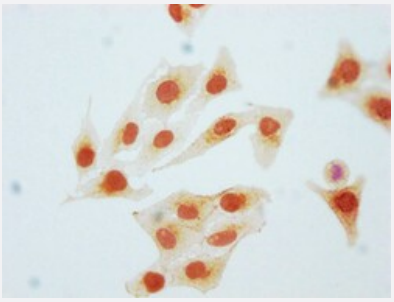
RecomAb™ Sm Size

CDK2 (phospho Y15) recombinant monoclonal antibody, clone 2C4

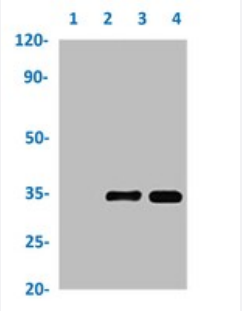
Catalog # RAB08074 Size 50 uL

Applications



Immunocytochemistry

Immunocytochemical staining of HeLa cells with CDK2 (phospho Y15) recombinant monoclonal antibody (diluated at 1:80).



Immunoprecipitation

Immunoprecipitation analysis of HeLa cell lysate with CDK2 (phospho Y15) recombinant monoclonal antibody.
Lane 1: rabbit control IgG,
Lane 2: RAB08074 precipitates and
Lane 3 : Input (Hela whole cell lysates).

Western Blot

Western blot analysis of
Lane 1: Hela whole cell lysate (treated with Pervanadate),
Lane 2: Hela whole cell lysate (not treated),
Lane 3: 293 whole cell lysate (treated with Pervanadate) and
Lane 4: 293 whole cell lysate (not treated) with CDK2 (phospho Y15) recombinant monoclonal antibody.

Specification

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Product Description	Rabbit recombinant monoclonal antibody raised against human CDK2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic phosphopeptide corresponding to residues surroundin g Y15 of human CDK2.
Theoretical MW (kDa)	Calculated MW: 34 kD
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography
Isotype	IgG
Recommend Usage	ELISA Immunocytochemistry Immunohistochemistry (1:50-1:200) Immunoprecipitation (1:200-1:1000) 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

- Immunohistochemistry
- Immunocytochemistry

  Immunocytochemical staining of HeLa cells with CDK2 (phospho Y15) recombinant monoclonal antibody (diluated at 1:80).
- Enzyme-linked Immunoabsorbent Assay

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- Immunoprecipitation

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Lane 4: 293 whole cell lysate (not treated) with CDK2 (phospho Y15) recombinant monoclonal antibody.

Gene Info — CDK2

Entrez GeneID	1017
Protein Accession#	P24941
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 kinase is highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2. It is a catalytic 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 regulated by the regulatory subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by its protein phosphorylation. Two alternatively spliced variants and multiple transcription initiation sites of this gene have been reported. [provided by RefSeq
Other Designations	cdc2-related protein kinase|cell devision kinase 2|p33 protein kinase

Pathway

- Cell cycle
- p53 signaling pathway

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- Pathways in cancer
- Prostate cancer
- Small cell lung cancer

Disease

- Azoospermia
- Breast cancer
- Breast Neoplasms
- Chromosome Aberrations
- Diabetes Mellitus
- Genetic Predisposition to Disease
- Kidney Failure
- Lymphoma
- Neoplasm Invasiveness
- Ovarian cancer
- Ovarian Neoplasms

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