

RecomAb™

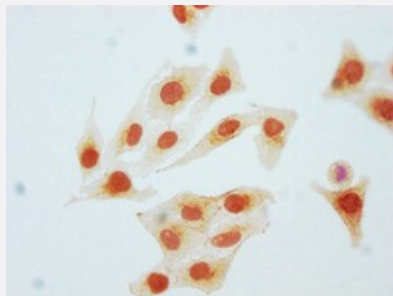
CDK2 (phospho Y15) recombinant monoclonal antibody, clone 2C4

Catalog # RAB04259 Size 100 uL

Applications

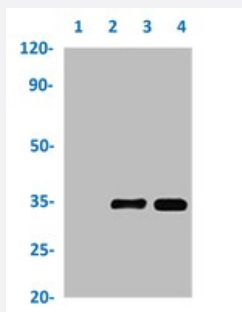
Western Blot

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, clone 2C4 (Cat # RAB04259).



Immunocytochemistry

Immunocytochemical staining of HeLa cells with CDK2 (phospho Y15) recombinant monoclonal antibody, clone 2C4 (Cat # RAB04259) (diluted at 1:80).



Immunoprecipitation

Immunoprecipitation analysis of HeLa cell lysate with CDK2 (phospho Y15) recombinant monoclonal antibody, clone 2C4 (Cat # RAB04259).

Lane 1: rabbit control IgG, Lane 2: RAB04259 precipitates and Lane 3 : Input (HeLa whole cell lysates).

Specification

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 surrounding Y15 of human CDK2.
Theoretical MW (kDa)	Calculated MW: 34 kD
Reactivity	Human
Form	Liquid
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 should be handled by trained staff only.

Applications

- 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, clone 2C4 (Cat # RAB04259).

- Immunohistochemistry

- Immunocytochemistry

Immunocytochemical staining of HeLa cells with CDK2 (phospho Y15) recombinant monoclonal antibody, clone 2C4 (Cat # RAB04259) (diluted at 1:80).

- Immunoprecipitation

Immunoprecipitation analysis of HeLa cell lysate with CDK2 (phospho Y15) recombinant monoclonal antibody, clone 2C4 (Cat # RAB04259).

Lane 1: rabbit control IgG, Lane 2: RAB04259 precipitates and Lane 3 : Input (Hela whole cell lysates).

- Enzyme-linked Immunoabsorbent Assay

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 division kinase 2|p33 protein kinase

Pathway

- [Cell cycle](#)
- [p53 signaling pathway](#)
- [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](#)