Cyclin Dependent Kinase 2 (CDK2) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cyclin Dependent Kinase 2 (CDK2), Polyclonal Antibody
Full Product Name	Biotin-Linked Polyclonal Antibody to Cyclin Dependent Kinase 2 (CDK2)
Product Gene Name	anti-CDK2 antibody
Product Synonym Names	CDKN2; p33(CDK2); Cell division protein kinase 2; p33 protein kinase
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Concentration	500ug/ml (lot specific)
Matching Pairs	Unconjugated Antibody: CDK2 (MBS2026742) Biotin Conjugated Antibody: CDK2 (MBS2093899)
Matching Pairs	Biotin Conjugated Antibody: CDK2 (MBS2093899) Immunogen: CDK2 (MBS2010305)
Molecular Weight	â€“ Da
3D Structure	ModBase 3D Structure for Q63699
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Conjugation	Biotin
Cross Reactivity	Human
Immunogen	CDK2 (Ser94~Thr198)
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for anti-CDK2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Related Product Information for anti-CDK2 antibody	MBS2093899 is an antibody targeting CDK2. Also known as Biotin-Linked Polyclonal Antibody to Cyclin Dependent Kinase 2 (CDK2). Reactive in Human. Host: Rabbit.
Other Notes	Small volumes of anti-CDK2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDK2. It may not necessarily be applicable to this product.

NCBI GI #	41054836
NCBI GeneID	362817
NCBI Accession #	NP_955795.1
UniProt Primary Accession #	Q63699
UniProt Secondary Accession #	O09136

UniProt Related Accession #	Q63699
GenBank Nucleotide #	NM_199501.1
NCBI Official Full Name	cyclin-dependent kinase 2
NCBI Official Synonym Full Names	cyclin dependent kinase 2
NCBI Official Symbol	Cdk2
UniProt Protein Name	Cyclin-dependent kinase 2
UniProt Synonym Protein Names	Cell division protein kinase 2
Protein Family	Cyclin-dependent kinase
UniProt Gene Name	Cdk2
UniProt Synonym Gene Names	Cdkn2
NCBI Protein Information	cyclin-dependent kinase 2
UniProt Comments for CDK2	CDK2: a protein kinase of the CDK family. An important component of the cell cycle machinery. Activity of CDK2 is maximal during S phase and G2. Cdk2/cyclin E kinase activity is important for the G1 to S transition and phosphorylates the Rb protein. In S-phase, active cdk2/cyclin A complexes predominate and phosphorylate E2F, and the active cdk2 complex persists in the nucleus through G2. Part of the Rb pathway disregulated in most tumors. Target of several candidate cancer drugs. However, inhibition does not always prevent cancer cell growth, possibly due to CDK redundancy. Inhibitors: BMS-265246, BMS-265246-01, R-roscovitine (CYC200, CYC202), SU9516, R547, L868276 Protein type: CDK family; CDK/CDK1 subfamily; CDK1 subfamily; CMGC group; Cell cycle regulation; EC 2.7.11.22; Kinase, protein; Protein kinase, CMGC; Protein kinase, Ser/Thr (non-receptor) Chromosomal Location of Human Ortholog: 7q11 Cellular Component: Cajal body; chromosome, telomeric region; condensed chromosome; cyclin-dependent protein kinase holoenzyme complex; cytoplasm; cytosol; endosome; intracellular membrane-bound organelle; microtubule organizing center; nucleoplasm; nucleus; transcription factor complex; X chromosome; Y chromosome Molecular Function: ATP binding; cyclin binding; cyclin-dependent protein kinase activity; histone kinase activity; kinase activity; metal ion binding; protein complex binding; protein domain specific binding; protein kinase activity Biological Process: cell division; cellular response to insulin stimulus; centriole replication; DNA repair; G1/S transition of mitotic cell cycle; histone phosphorylation; lens development in camera-type eye; meiotic cell cycle; negative regulation of transcription from RNA polymerase II promoter; organ regeneration; peptidyl-serine phosphorylation; positive regulation of cell proliferation; positive regulation of DNA-dependent DNA replication initiation; positive regulation of transcription, DNA-templated; potassium ion transport; protein amino acid phosphorylation; Ras protein signal transduction; regulation of cell cycle; regulation of G2/M transition of mitotic cell cycle; regulation of gene expression; response to cadmium ion; response to cAMP; response to drug; response to electrical stimulus; response to estradiol; response to ethanol; response to toxin; signal transduction
Research Articles on CDK2	**1.** that p52SHC3 plays an important role in maintaining the mitotic quiescence of neurons, while p52SHC1 regulates the proliferation of neural stem cells
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