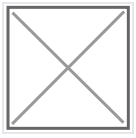
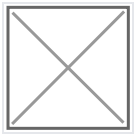
CDK2 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

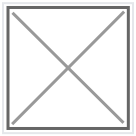
Product Name	CDK2, Monoclonal Antibody
Full Product Name	CDK2 (Cell Division Protein Kinase 2, p33 Protein Kinase) APC
Product Gene Name	anti-CDK2 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	2E8
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Allophycocyanin (APC).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human CDK2.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: APC conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	30,035 Da
Immunogen	Partial recombinant corresponding to aa211-298 from human CDK2 (AAH03065) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	QLFRIFRTLGTPDEVVWPGVTSMPDYKPSFPKWARQDFSKVVPPLDEDGRSLLSQMLHYDPNKRISAKAALAHPFFQDVTKPVPHLRL
Conjugate	APC
Product Categories/Family for anti-CDK2 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CDK2 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-CDK2 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CDK2 antibody	CDK2 a serine/threonine protein kinase, is a member of a highly conserved family of protein kinases that regulate the eukaryotic cell cycle. The protein kinase is homologous to the gene products of S. cerevisiae cdc28, and S. pombe cdc2. For activity, it requires association with a cyclins which act as the positive regulatory subunit. It forms complex with cyclins A, E, D1, and D3. Cyclin E-CDK2 kinase is active in the G1 and S phases of the cell cycle and is important for the progression from G1 to S phase. The levels of Cyclin A- CDK2 are maximal at the G1/S transition and both CDK2 and Cyclin A associate with DNA in the initiation complex during replication.
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.
Searchable Terms for CDK2 purchase	MBS6135814 is an antibody targeting CDK2. Also known as CDK2 (Cell Division Protein Kinase 2, p33 Protein Kinase) APC. Reactive in Human. Host: Mouse.



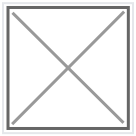
Western Blot (WB) of anti-CDK2 antibody
Western Blot detection against Immunogen (35.42kD).



Western Blot (WB) of anti-CDK2 antibody
CDK2 monoclonal antibody, Western Blot analysis of CDK2 expression in HL-60.



Western Blot (WB) of anti-CDK2 antibody
Western Blot analysis of CDK2 expression in transfected 293T cell line by CDK2 monoclonal antibody. Lane 1: CDK2 transfected lysate (33.9kD). Lane 2: Non-transfected lysate.



Testing Data of anti-CDK2 antibody
Detection limit for recombinant GST tagged CDK2 is ~0.03ng/ml as a capture antibody.



Western Blot (WB) of anti-CDK2 antibody
Western blot analysis of CDK2 over-expressed 293 cell line, cotransfected with CDK2 Validated Chimera RNAi (Lane 2) or non-transfected control (Lane 1). Blot probed with CDK2 monoclonal antibody. GAPDH (36.1kD) used as specificity and loading control.



Western Blot (WB) of anti-CDK2 antibody
CDK2 monoclonal antibody. Western Blot analysis of CDK2 expression in Jurkat.

ADDITIONAL DETAILS

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

NCBI GI #	33869456
NCBI GeneID	1017
NCBI Accession #	BC003065
NCBI Related Accession #	AAH03065
UniProt Secondary Accession #	O75100; A8K7C6
UniProt Related Accession #	P24941
NCBI Official Full Name	Homo sapiens cyclin-dependent kinase 2, mRNA
NCBI Official Synonym Full Names	cyclin dependent kinase 2
NCBI Official Symbol	CDK2
NCBI Official Synonym Symbols	CDKN2; p33(CDK2)
Protein Family	Cyclin-dependent kinase
NCBI Protein Information	cyclin-dependent kinase 2
NCBI Summary for CDK2	This gene encodes a member of a family of serine/threonine protein kinases that participate in cell cycle regulation. The encoded protein is the catalytic subunit of the cyclin-dependent protein kinase complex, which regulates progression through the cell cycle. Activity of this protein is especially critical during the G1 to S phase transition. This protein associates with and regulated by other subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A), and p27Kip1 (CDKN1B). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]
Research Articles on CDK2	**1.** Foxo3 circular RNA retards cell cycle progression via forming ternary complexes with p21 and CDK2.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.

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