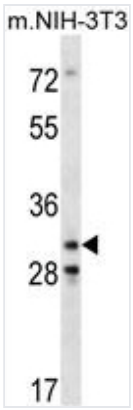
CDK4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Cdk4, Polyclonal Antibody
Full Product Name	Cdk4, CT (Cdk4, Crk3, Cyclin-dependent kinase 4, CRK3, Cell division protein kinase 4, PSK-J3) (Azide free) (HRP)
Product Gene Name	anti-Cdk4 antibody
Product Synonym Names	Cdk4; Crk3; Cyclin-dependent kinase 4; CRK3; Cell division protein kinase 4; PSK-J3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A and Peptide Affinity Chromatography.
Specificity	Recognizes mouse Cdk4.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	33,751 Da
3D Structure	ModBase 3D Structure for P30285
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 219-246 in the C-terminal region of mouse Cdk4, UniProt Accession #P30285. Species sequence homology: rat
Conjugate	HRP
Note	Preservative Free
Product Categories/Family for anti-Cdk4 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-Cdk4 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-Cdk4 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-Cdk4 antibody	MBS6284395 is an antibody targeting Cdk4. Also known as Cdk4, CT (Cdk4, Crk3, Cyclin-dependent kinase 4, CRK3, Cell division protein kinase 4, PSK-J3) (Azide free) (HRP). Reactive in Mouse. Host: Rabbit.
Product References and Citations for anti-Cdk4 antibody	1. Trivedi, C.M., et al. Dev. Cell 19(3):450-459(2010). 2. Beilke, S., et al. Oncogene 29(28):4058-4067(2010). 3. Puyol, M., et al. Cancer Cell 18(1):63-73(2010). 4. Wiedemeyer, W.R., et al. Proc. Natl. Acad. Sci. U.S.A. 107(25):11501-11506(2010). 5. Michaud, K., et al. Cancer Res. 70(8):3228-3238(2010).
Other Notes	Small volumes of anti-Cdk4 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.



Western Blot (WB) of anti-Cdk4 antibody
Western Blot analysis in mouse NIH-3T3 cell line lysates (35ug/lane) using 033662. This demonstrates that 033662 detected the Cdk4 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Cdk4. It may not necessarily be applicable to this product.

NCBI GI #	6753380
NCBI GeneID	12567
NCBI Accession #	NP_034000.1
UniProt Primary Accession #	P30285
UniProt Related Accession #	P30285
GenBank Nucleotide #	NM_009870.3
NCBI Official Full Name	cyclin-dependent kinase 4
NCBI Official Synonym Full Names	cyclin-dependent kinase 4
NCBI Official Symbol	Cdk4
NCBI Official Synonym Symbols	Crk3
UniProt Protein Name	Cyclin-dependent kinase 4
UniProt Synonym Protein Names	CRK3; Cell division protein kinase 4; PSK-J3
Protein Family	Cyclin-dependent kinase
UniProt Gene Name	Cdk4
UniProt Synonym Gene Names	Crk3
UniProt Entry Name	CDK4_MOUSE
NCBI Protein Information	cyclin-dependent kinase 4; PSK-J3; p34<PSK-J3>/cdk4; serine/threonine kinase; cyclin dependent kinase 4; cell division protein kinase 4

UniProt Comments for Cdk4	CDK4: a protein kinase of the CDK family that is important for cell cycle G1 phase progression. Its activity is restricted to the G1-S phase. Controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). Phosphorylates the retinoblastoma gene product (Rb). Point mutations found in somatic and familial melanoma. Amplified in sarcomas, glioma and lymphoma. Amplified, methylated or deleted in head and neck squamous cell carcinoma. Overexpression drives epithelial tumors in mice. Disruption makes mice resistant to cancer. Inhibitor: PD332991. Protein type: Cell cycle regulation; EC 2.7.11.22; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Protein kinase, CMGC; CMGC group; CDK family; CDK/CDK4 subfamily; CDK4 subfamily Cellular Component: transcription factor complex; nuclear membrane; tight junction; membrane; perinuclear region of cytoplasm; cytoplasm; cyclin-dependent protein kinase holoenzyme complex; nucleolus; chromatin; nucleus; cytosol Molecular Function: transferase activity; protein serine/threonine kinase activity; cyclin binding; protein binding; cyclin-dependent protein kinase activity; transferase activity, transferring phosphorus-containing groups; nucleotide binding; protein complex binding; kinase activity; ATP binding; protein kinase activity Biological Process: response to drug; positive regulation of cell size; positive regulation of translation; regulation of cell cycle; positive regulation of apoptosis; response to testosterone stimulus; signal transduction; cell cycle; protein amino acid phosphorylation; regulation of cell proliferation; response to organic substance; positive regulation of fibroblast proliferation; regulation of gene expression; cell division; positive regulation of cell proliferation; response to lead ion; phosphorylation; G1/S transition of mitotic cell cycle
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