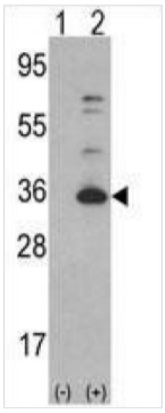
CDK4 Antibody – Rabbit Polyclonal

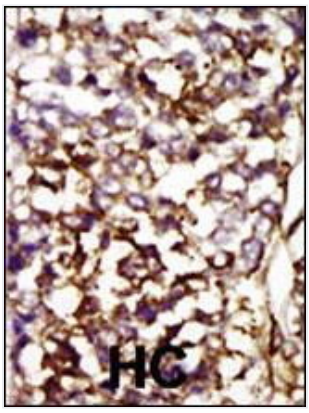
PRODUCT OVERVIEW

Product Name	CDK4, Polyclonal Antibody
Full Product Name	CDK4, CT (CDK4, Cyclin-dependent kinase 4, Cell division protein kinase 4, PSK-J3) (PE)
Product Gene Name	anti-CDK4 antibody
Product Synonym Names	CDK4; Cyclin-dependent kinase 4; Cell division protein kinase 4; PSK-J3
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with R-Phycoerythrin (PE).
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human CDK4.
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: PE conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	34kDa
Chromosome Location	Chromosome: 12; NC_000012.11 (58141510..58146304, complement). Location: 12q14
OMIM	123829
3D Structure	ModBase 3D Structure for P11802
Immunogen	KLH-conjugated synthetic peptide mapping to a fragment of residues within amino acids 273-305 in the C-terminal region of human CDK4.
Conjugate	PE
Note	Preservative Free
Special Handling	Light sensitive
Product Categories/Family for anti-CDK4 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CDK4 antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB), Flow Cytometry (FC/FACS), FLISA, Immunofluorescence (IF)
Application Notes for anti-CDK4 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CDK4 antibody	MBS6284412 is an antibody targeting CDK4. Also known as CDK4, CT (CDK4, Cyclin-dependent kinase 4, Cell division protein kinase 4, PSK-J3) (PE). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-CDK4 antibody	1. Mori, N., et al., Int. J. Hematol. 77(3):259-262 (2003). 2. Masaki, T., et al., Hepatology 37(3):534-543 (2003). 3. Gump, J., et al., J. Biol. Chem. 278(9):6619-6622 (2003). 4. Ramirez, R.D., et al., Oncogene 22(3):433-444 (2003). 5. Detjen, K.M., et al., Exp. Cell Res. 282(2):78-89 (2003).

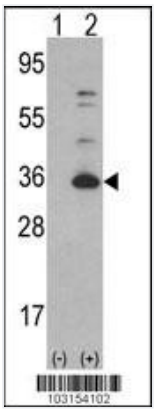
Other Notes	Small volumes of anti-CDK4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



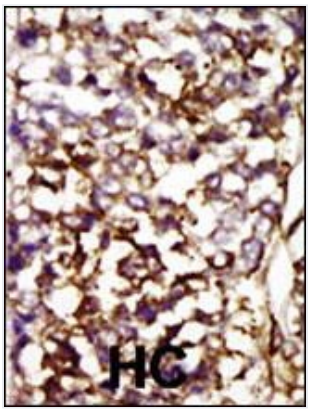
Western Blot (WB) of anti-CDK4 antibody
Western Blot analysis of CDK4 (arrow) in 293 cell lysates (2 ug/lane) using 033663 either nontransfected (Lane 1) or transiently transfected with the CDK4 gene (Lane 2).



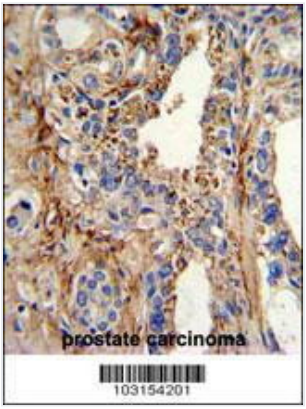
Immunohistochemistry (IHC) of anti-CDK4 antibody
Immunohistochemistry analysis in formalin-fixed and paraffin-embedded human cancer tissue reacted with 033663, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of 033663 for immunohistochemistry. HC = hepatocarcinoma.



Immunohistochemistry (IHC) of anti-CDK4 antibody
Immunohistochemistry analysis in formalin-fixed and paraffin-embedded human prostate carcinoma with 033663, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of 033663 for immunohistochemistry.



Immunofluorescence (IF) of anti-CDK4 antibody
Fluorescent image of Hela cell stained with 033663. Hela cells were fixed with 4% PFA (20mins), permeabilized with Triton X-100 (0.1%, 10mins), then incubated with 033663 (1:25, 1hr at 37 degree C). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree C). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1hr at 37 degree C).CDK4 immunoreactivity is localized to Cytoplasm significantly.



Flow Cytometry (FC/FACS) of anti-CDK4 antibody
Flow Cytometric analysis of HL60 cells using 033663 (bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDK4. It may not necessarily be applicable to this product.

NCBI GI #	4502735
NCBI GeneID	1019
NCBI Accession #	NP_000066.1
UniProt Primary Accession #	P11802
UniProt Secondary Accession #	O00576; Q6FG61
UniProt Related Accession #	P11802
GenBank Nucleotide #	NM_000075.3
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	CMM3; PSK-J3
UniProt Protein Name	Cyclin-dependent kinase 4
UniProt Synonym Protein Names	Cell division protein kinase 4; PSK-J3
Protein Family	Cyclin-dependent kinase
UniProt Gene Name	CDK4
UniProt Entry Name	CDK4_HUMAN
NCBI Protein Information	cyclin-dependent kinase 4; cell division protein kinase 4
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