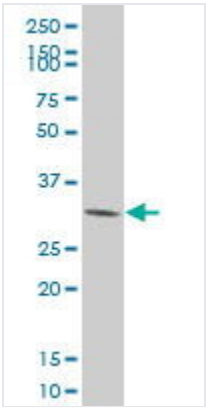
CDK4 Antibody – Mouse Monoclonal

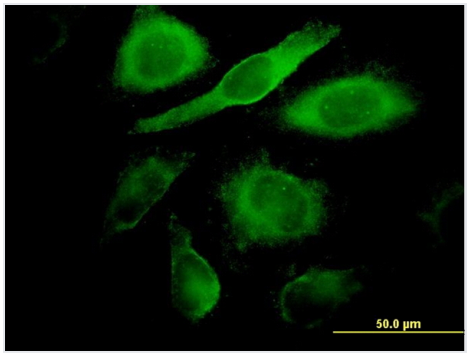
PRODUCT OVERVIEW

Product Name	CDK4, Monoclonal Antibody
Full Product Name	CDK4 (Cyclin-Dependent Kinase 4, CMM3, MGC14458, PSK-J3) (Biotin)
Product Gene Name	anti-CDK4 antibody
Product Synonym Names	Cyclin-Dependent Kinase 4; CMM3; MGC14458; PSK-J3
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	8A10
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified
Specificity	Recognizes 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. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Immunogen	CDK4 (AAH03644, 211aa-303aa) partial recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	KPLFCGNSEADQLGKIFDLIGLPPEDDWPRDVSLPRGAFPPRGPRPVQSVVPEMEESGAQLLLEMLTFNPHKRISAFRALQHSYLHKDEGNPE
Conjugate	Biotin
Product Categories/Family for anti-CDK4 antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-CDK4 antibody	Immunofluorescence (IF), Western Blot (WB)
Application Notes for anti-CDK4 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-CDK4 antibody	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is highly similar to the gene products of S. cerevisiae cdc28 and S. pombe cdc2. It is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression. The activity of this kinase is restricted to the G1-S phase, which is controlled by the regulatory subunits D-type cyclins and CDK inhibitor p16(INK4a). This kinase was shown to be responsible for the phosphorylation of retinoblastoma gene product (Rb). Mutations in this gene as well as in its related proteins including D-type cyclins, p16(INK4a) and Rb were all found to be associated with tumorigenesis of a variety of cancers. Multiple polyadenylation sites of this gene have been reported. [provided by RefSeq]

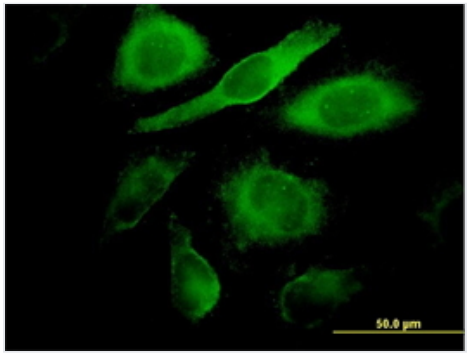
Other Notes	Small volumes of anti-CDK4 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CDK4 purchase	MBS6172079 is an antibody targeting CDK4. Also known as CDK4 (Cyclin-Dependent Kinase 4, CMM3, MGC14458, PSK-J3) (Biotin). Host: Mouse.



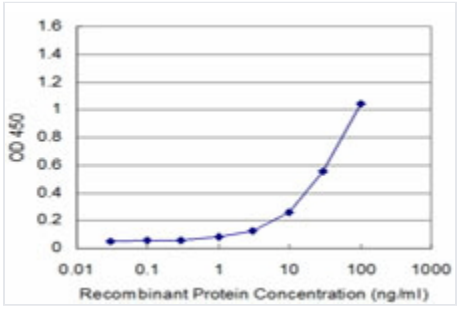
Western Blot (WB) of anti-CDK4 antibody
CDK4 monoclonal antibody (M09), clone 8A10 Western Blot analysis of CDK4 expression in HeLa.



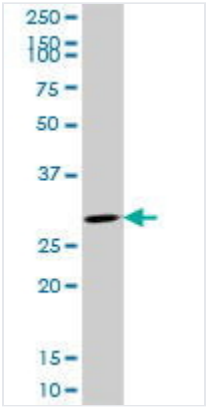
Immunofluorescence (IF) of anti-CDK4 antibody
Immunofluorescence of monoclonal antibody to CDK4 on HeLa cell. [antibody concentration 10 ug/ml]



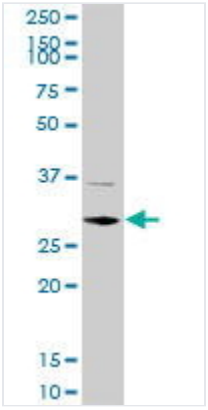
Immunofluorescence (IF) of anti-CDK4 antibody
Immunofluorescence of monoclonal antibody to CDK4 on HeLa cell. [antibody concentration 10 ug/ml]



Testing Data of anti-CDK4 antibody
Detection limit for recombinant GST tagged CDK4 is approximately 3ng/ml as a capture antibody.



Western Blot (WB) of anti-CDK4 antibody
CDK4 monoclonal antibody (M09), clone 8A10. Western Blot analysis of CDK4 expression in NIH/3T3.



Western Blot (WB) of anti-CDK4 antibody
CDK4 monoclonal antibody (M09), clone 8A10. Western Blot analysis of CDK4 expression in Raw 264.7.

ADDITIONAL DETAILS

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

NCBI GI #	13177739

NCBI GeneID	1019
NCBI Accession #	AAH03644
UniProt Related Accession #	P11802
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
Protein Family	Cyclin-dependent kinase
NCBI Protein Information	cyclin-dependent kinase 4
Research Articles on CDK4	**1.** Taken together, these results suggest that IGF1R inhibitors activation is an escape mechanism to CDK4/6 inhibitors in Ewing sarcoma and that dual targeting of CDK4/6 inhibitors and IGF1R inhibitors provides a candidate synergistic combination for clinical application in this disease.
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