CDK4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CDK4, Polyclonal Antibody
Full Product Name	CDK4 Conjugated Antibody
Product Gene Name	anti-CDK4 antibody
Product Synonym Names	PSK-J3; CMM3; CMM3
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	0.01M Sodium Phosphate, 0.25M NaCl, pH 7.6, 5mg/ml Bovine Serum Albumin, 0.02% Sodium Azide
Specificity	The antibody detects endogenous levels of total CDK4 protein.
Preparation and Storage	Store at 4 degree C for 6 months.
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	Peptide sequence around aa.295~299 (L-H-K-D-E)derived from Human CDK4.
Conjugation	Biotin AF350 AF405 AF488 AF555 AF594 AF647 AF680 AF750
Excitation Emission	AF350: 346nm/442nm
Applications Tested/Suitable for anti-CDK4 antibody	Most Applications
Application Notes for anti-CDK4 antibody	Suggested Dilution: AF350 conjugated: most applications: 1:50-1:250 AF405 conjugated: most applications: 1:50-1:250 AF488 conjugated: most applications: 1:50-1:250 AF555 conjugated: most applications: 1:50-1:250 AF594 conjugated: most applications: 1:50-1:250 AF647 conjugated: most applications: 1:50-1:250 AF680 conjugated: most applications: 1:50-1:250 AF750 conjugated: most applications: 1:50-1:250 Biotin conjugated: working with enzyme-conjugated streptavidin, most applications: 1:50-1:1000
Related Product Information for anti-CDK4 antibody	Cyclin-dependent kinase activity is regulated by T-loop phosphorylation (Thr172 in the case of CDK4), by the abundance of their cyclin partners, and by association with CDK inhibitors of the Cip/Kip or INK family of proteins. The inactive ternary complex of CDK4/cyclin D and p27 Kip1/Cip1 requires extracellular mitogenic stimuli for the release and degradation of p27, which affects progression through the restriction point and pRb-dependent entry into S-phase. The active complex of CDK4/cyclin D targets the retinoblastoma protein for phosphorylation, allowing the release of E2F transcription factors that activate G1/S-phase gene expression. In HeLa cells, upon UV irradiation, upregulation of p16 INK4A association with CDK4/cyclin D3 leads to a G2 delay, implicating CDK4/cyclin D3 activity in progression through the G2-phase of the cell cycle.

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	MBS9438833 is an antibody targeting CDK4. Also known as CDK4 Conjugated Antibody. Reactive in Human. Host: Rabbit.

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_000075.2
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
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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