

Rabbit anti-Human CDK4 Monoclonal Antibody | anti-CDK4 antibody

CDK4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA30186	Rabbit	Human	Western Blot, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Flow Cytometry, Functional Assay

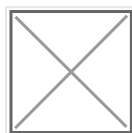
PRODUCT SYNONYMS

CDK4; Monoclonal Antibody; CDK4 Antibody; Cdk 4 antibody; cdk4 antibody; CDK4 protein antibody; CDK4_HUMAN antibody; Cell division kinase 4 antibody; Cell division protein kinase 4 antibody; CMM 3 antibody; CMM3 antibody; Crk3 antibody; Cyclin dependent kinase 4 antibody; Cyclin-dependent kinase 4 antibody; Melanoma cutaneous malignant 3 antibody; MGC14458 antibody; p34 cdk4 antibody; PSK J3 antibody; PSK-J3 antibody; anti-CDK4 antibody

PRODUCT SPECIFICATIONS

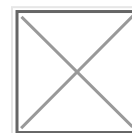
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Clone Number	SD20-42
Purity/Purification	ProA affinity purified
Form/Format	1*TBS (pH7.4), 1% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.
Applicable Applications for anti-CDK4 antibody	WB (Western Blot), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry)
Application Notes	WB: 1:1000-5000 IHC: 1:50-1:200 ICC: 1:100-1:500 FC/FACS: 1:50-1:100
Antibody Type	Recombinant Antibody
Immunogen	Recombinant protein
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C.

IMAGES



FCM (Flow Cytometry)

Flow cytometric analysis of MCF-7 cells with Cdk4 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



ICC (Immunocytochemistry)

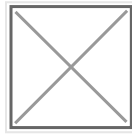
ICC staining Cdk4 in NIH/3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

**ICC (Immunocytochemistry)**

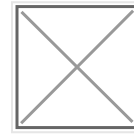
ICC staining Cdk4 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

**ICC (Immunocytochemistry)**

ICC staining Cdk4 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded human gastric carcinoma tissue using anti-Cdk4 antibody. Counter stained with hematoxylin.

**IHC (Immunohistochemistry)**

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Cdk4 antibody. Counter stained with hematoxylin.

ADDITIONAL INFORMATION

Related Product Information for anti-CDK4 antibody	Cell cycle progression is controlled in part by a family of cyclin proteins and cyclin dependent kinases (Cdks). Cdk proteins work in concert with the cyclins to phosphorylate key substrates involved in each phase of cell cycle progression. Another family of proteins, Cdk inhibitors, also plays a role in regulating the cell cycle by binding to cyclin-Cdk complexes and modulating their activity. Several Cdk proteins have been identified, including Cdk2-Cdk8, PCTAIRE-1-PCTAIRE-3, PITALRE and PITSLRE. Cdk4, in complex with D-type cyclins, is thought to regulate cell growth during the G1 phase of the cell cycle. This association with a D-type cyclin upregulates Cdk4 activity, whereas binding to the Cdk inhibitor p16 downregulates Cdk4 activity. Activation of the Cdk4-cyclin complexes requires phosphorylation on a single threonyl residue of Cdk4, catalyzed by a Cdk-activating protein (CAK).
Product Categories/Family for anti-CDK4 antibody	Total protein Ab

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502735
NCBI GeneID	1019
NCBI Accession #	NP_000066.1
NCBI GenBank Nucleotide #	NM_000075.3
UniProt Accession #	P11802; O00576; Q6FG61
Molecular Weight	34kDa
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
NCBI Protein Information	cyclin-dependent kinase 4; cell division protein kinase 4
UniProt Protein Name	Cyclin-dependent kinase 4
UniProt Gene Name	CDK4
UniProt Entry Name	CDK4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

