

Rabbit anti-Human, Mouse CDK4 Polyclonal Antibody | anti-CDK4 antibody

[KO Validated] CDK4 Rabbit pAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28411	Rabbit	Human, Mouse	Western Blot, Immunohistochemistry, Immunoprecipitation, Immunofluorescence, Immunocytochemistry

PRODUCT SYNONYMS

CDK4; Polyclonal Antibody; [KO Validated] CDK4 Rabbit pAb; CMM3; PSK-J3; cyclin-dependent kinase 4; anti-CDK4 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.01% thiomersal, 50% glycerol, pH7.3.
Applicable Applications for anti-CDK4 antibody	WB (Western Blot), IHC (Immunohistochemistry), IP (Immunoprecipitation), IF (Immunofluorescence), ICC (Immunocytochemistry)
Application Notes	WB: 1:500-1:2000 IHC: 1:50-1:100 IP: 1:50-1:200 IF/ICC: 1:50-1:200
Positive Samples	HeLa, 293T
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 200-303 of human CDK4 (NP_000066.1).
Cellular Location	Cytoplasm, Membrane, Nucleus
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



IP (Immunoprecipitation)

Immunoprecipitation analysis of 200ug extracts of 293T cells using 3ug CDK4 antibody. Western blot was performed from the immunoprecipitate using CDK4 antibody at a dilution of 1:1000.



IF (Immunofluorescence)

Immunofluorescence analysis of NIH/3T3 using CDK4 antibody at dilution of 1:150 (40x lens). Blue: DAPI for nuclear staining.



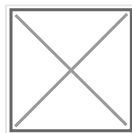
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human colon using CDK4 antibody at dilution of 1:100 (40x lens). Perform microwave antigen retrieval with 10 mM PBS buffer pH 7.2 before commencing with IHC staining protocol.



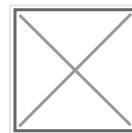
WB (Western Blot)

Western blot analysis of extracts from wild type (WT) and CDK4 knockout (KO) HeLa cells, using CDK4 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 60s.



WB (Western Blot)

Western blot analysis of extracts of 293T cells, using CDK4 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 60s.



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using CDK4 antibody at 1:1000 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit. Exposure time: 60s.

ADDITIONAL INFORMATION

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.

Product Categories/Family for anti-CDK4 antibody

[Epigenetics & Nuclear Signaling](#); [Cancer](#); [Signal Transduction](#); [Kinase](#); [Serine/threonine kinases](#); [Cell Biology & Developmental Biology](#); [Cell Cycle](#); [G1/S Checkpoint](#); [Polyclonal Antibodies](#)

NCBI AND UNIPROT INFORMATION

NCBI GeneID	1019
UniProt Accession #	Q6YUL8
Molecular Weight	Observed MW: 35KDa Calculated MW: 20kDa/33kDa

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cdk4-antibody-western-blot-immunohistochemistry-immunoprecipitation-immunofluorescence-immunocytochemistry-elisa/28411>