

CDK4 Antibody

Catalog No: #21437



Package Size: #21437-1 50ul #21437-2 100ul #21437-4 25ul

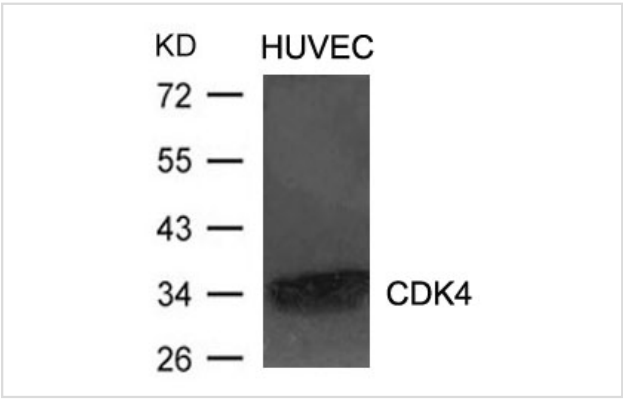
Overview

Product Name	CDK4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB IHC
Species Reactivity	Hu
Immunogen Type	Peptide-KLH
Target Name	CDK4
Alternative Names	PSK-J3; CMM3; CMM3

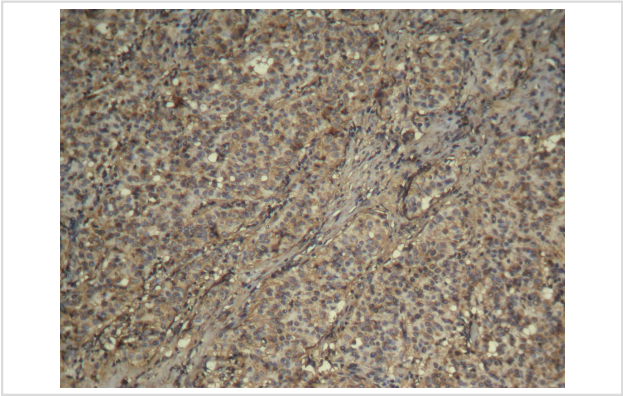
Application Details

Predicted MW: 34kd
Western blotting: 1:500~1:1000
Immunohistochemistry:1:50~1:100

Images



Western blot analysis of extracts from HUVEC cells using CDK4 Antibody #21437.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CDK4 Antibody #21437.

Descriptions

Immunogen	Peptide sequence around aa.295~299(L-H-K-D-E)derived from Human CDK4.
Specificity	The antibody detects endogenous levels of total CDK4 protein.
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.
Accession NO.	Swiss-Prot: P11802NCBI Protein: NP_000066.1

Related Information

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 .

Hirai, H. et al. (1995) Mol. Cell. Biol. 15, 2672-2681.

Sherr, C.J. (1996) Science 274, 1672-1677.

Lukas, J. et al. (1996) Mol. Cell. Biol. 16, 6917-6925.

Gabrielli, B.G. et al. (1999) J Biol Chem 274, 13961-9.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.