Datasheet for ABIN671166

anti-CDK4 antibody (AA 241-303)

3 Images | 2 Publications

Go to Product page

Overview

Quantity:	100 µL
Target:	CDK4
Binding Specificity:	AA 241-303
Reactivity:	Human, Mouse, Rat, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human CDK4
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat, Sheep
Predicted Reactivity:	Cow,Pig
Purification:	Purified by Protein A.

Target Details

Target:	CDK4

Target Details

Alternative Name:	CDK4 (CDK4 Products)
Background:	Synonyms: CMM3, PSK-J3, Cyclin-dependent kinase 4, Cell division protein kinase 4, CDK4 Background: Ser/Thr-kinase component of cyclin D-CDK4 (DC) complexes that phosphorylate and inhibit members of the retinoblastoma (RB) protein family including RB1 and regulate the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complexes and the subsequent transcription of E2F target genes which are responsible for the progression through the G(1) phase. Hypophosphorylates RB1 in early G(1) phase. Cyclin D-CDK4 complexes are major integrators of various mitogenenic and antimitogenic signals. Also phosphorylates SMAD3 in a cell-cycle-dependent manner and represses its transcriptional activity. Component of the ternary complex, cyclin D/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.
Gene ID:	1019
UniProt:	P11802
Pathways:	Cell Division Cycle, Mitotic G1-G1/S Phases, Regulation of Cell Size

Application Details

Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin

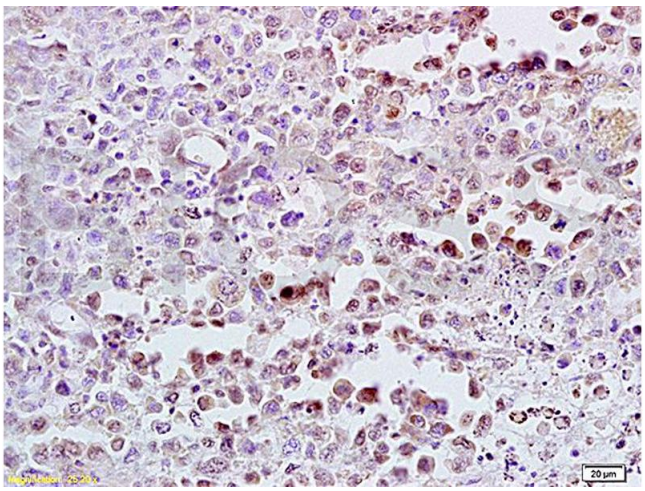
Handling

Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

Publications

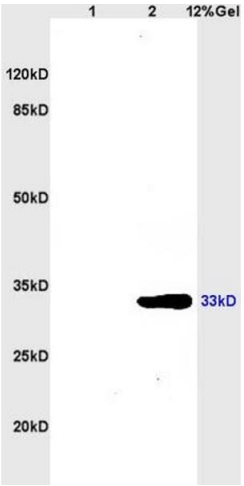
Product cited in:	Zhou, Liu, Cai, Liu, Jiang, Wang: "Protective effects of ginsenoside Rg1 on aging Sca?1+ hematopoietic cells." in: **Molecular medicine reports**, Vol. 12, Issue 3, pp. 3621-8, (2015) (PubMed). Yang, Wang, Hui, Li, Jiang: "SOX 1, contrary to SOX 2, suppresses proliferation, migration, and invasion in human laryngeal squamous cell carcinoma by inhibiting the Wnt/?-catenin pathway. " in: **Tumour biology**, (2015) (PubMed).

Images



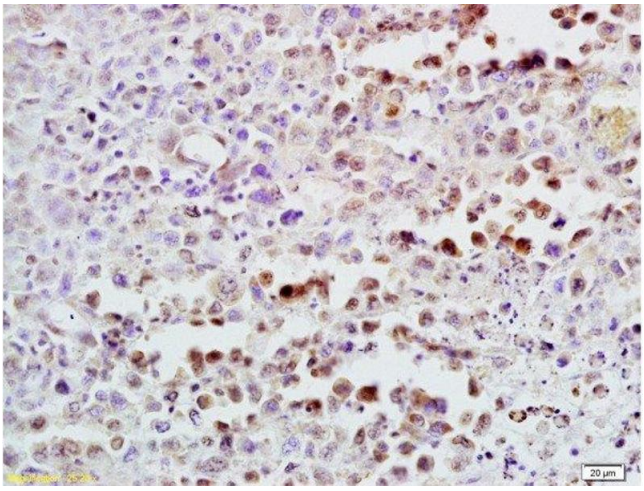
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded mouse lymphoma tissue labeled with Anti-CDK4 Polyclonal Antibody (ABIN671166), Unconjugated at 1:300, followed by conjugation to the secondary antibody and DAB staining



SDS-PAGE

Image 2. Lane 1: mouse brain lysates Lane 2: mouse kidney lysates probed with Anti CDK4 Polyclonal Antibody, Unconjugated (ABIN671166) at 1:200 in 4 °C. Followed by conjugation to secondary antibody at 1:3000 90min in 37 °C. Predicted band 33kD. Observed band size: 33kD.



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Formalin-fixed and paraffin embedded mouse lymphoma tissue labeled with Anti-CDK4 Polyclonal Antibody , Unconjugated at 1:300, followed by conjugation to the secondary antibody and DAB staining