Cyclin-dependent kinase 4 Polyclonal Antibody

Catalog No: #42545

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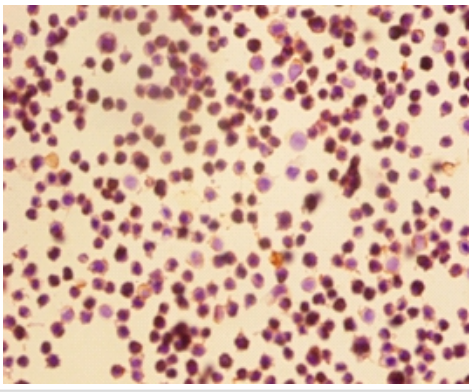
Description

Product Name	Cyclin-dependent kinase 4 Polyclonal Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Caprylic Acid Ammonium Sulfate Precipitation purified
Applications	IHC
Species Reactivity	Hu
Specificity	The antibody detects endogenous level of total Cyclin-dependent kinase 4 polyclonal antibody.
Immunogen Type	protein
Immunogen Description	Recombinant human Cyclin-dependent kinase 4
Target Name	Cyclin-dependent kinase 4
Other Names	Cell division protein kinase 4, PSK-J3, CDK4
Accession No.	Swiss-Prot#: P11802
Uniprot	P11802
GeneID	1019;
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

Application Details

Immunohistochemistry: 1:20 - 1:200

Images



Immunohistochemical analysis of paraffin-embedded EC109 cells using #42545 at dilution of 1:50.

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 G1/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 G1 phase. Hypophosphorylates RB1 in early G1 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.

References

[1] Hanks S.K.Submitted (FEB-1987) to the EMBL/GenBank/DDBJ databasesCited for: NUCLEOTIDE SEQUENCE [MRNA]. [2] "Transcript mapping in a 46-kb sequenced region at the core of 12q13.3 amplification in human cancers."Elkahloun A.G., Krizman D.B.

Note: This product is for in vitro research use only