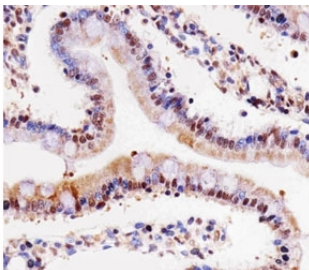


Cdk4 Antibody (F52368)

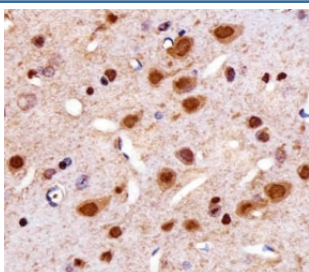
Catalog No.	Formulation	Size
F52368-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F52368-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

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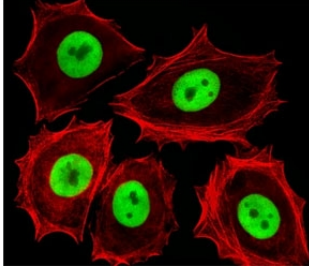
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Antigen affinity
UniProt	P35426
Localization	Nuclear and cytoplasmic
Applications	IHC (Paraffin) : 1:25 Immunofluorescence : 1:25
Limitations	This Cdk4 antibody is available for research use only.



IHC testing of paraffin-embedded rat small intestine using Cdk4 antibody at 1:25.



IHC analysis of FFPE rat brain section using Cdk4 antibody at 1:25.



Fluorescent image of MCF-7 cells stained with Cdk4 antibody. Ab was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary Ab (green). Cytoplasmic actin was counterstained with Alexa Fluor 555 conjugated with Phalloidin (red).

Description

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 mitogenic 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 (By similarity).

Application Notes

Titration of the Cdk4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 272-303 from the rat protein was used as the immunogen for this Cdk4 antibody.

Storage

Aliquot the Cdk4 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.