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Phospho-CCND3(S264) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP3885a

Specification

Phospho-CCND3(S264) Antibody - Product Information

Application	DB,E
Primary Accession	P30281
Other Accession	NP_001129489.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	32520

Phospho-CCND3(S264) Antibody - Additional Information

Gene ID 896

Other Names
G1/S-specific cyclin-D3, CCND3

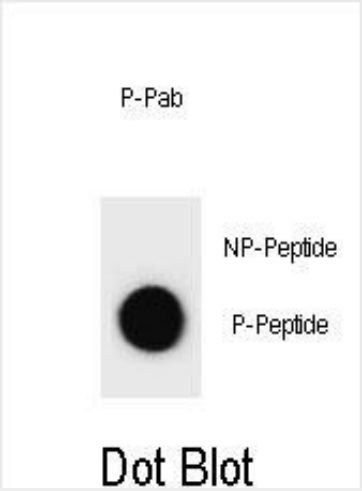
Target/Specificity
This CCND3 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S264 of human CCND3.

Dilution
DB~~1:500

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
Phospho-CCND3(S264) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.



Dot blot analysis of CCND3 Antibody (Phospho S264) Phospho-specific Pab (Cat. #AP3885a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

Phospho-CCND3(S264) Antibody - Background

The protein encoded by this gene belongs to the highly
conserved cyclin family, whose members are characterized by a
dramatic periodicity in protein abundance through the cell cycle.
Cyclins function as regulators of CDK kinases. Different cyclins
exhibit distinct expression and degradation patterns which
contribute to the temporal coordination of each mitotic event. This
cyclin forms a complex with and functions as a regulatory subunit
of CDK4 or CDK6, whose activtiy is required for cell cycle G1/S
transition. This protein has been shown to interact with and be

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Phospho-CCND3(S264) Antibody - Protein Information

Name CCND3

Function
Regulatory component of the cyclin D3-CDK4 (DC) complex that phosphorylates and inhibits members of the retinoblastoma (RB) protein family including RB1 and regulates the cell-cycle during G(1)/S transition. Phosphorylation of RB1 allows dissociation of the transcription factor E2F from the RB/E2F complex 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 substrate for SMAD3, phosphorylating SMAD3 in a cell-cycle-dependent manner and repressing its transcriptional activity. Component of the ternary complex, cyclin D3/CDK4/CDKN1B, required for nuclear translocation and activity of the cyclin D-CDK4 complex.

Cellular Location
Nucleus. Cytoplasm. Membrane
Note=Cyclin D-CDK4 complexes accumulate at the nuclear membrane and are then translocated to the nucleus through interaction with KIP/CIP family members.

Phospho-CCND3(S264) Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

involved in the phosphorylation of tumor suppressor protein Rb. The
CDK4 activity associated with this cyclin was reported to be
necessary for cell cycle progression through G2 phase into mitosis
after UV radiation. Several transcript variants encoding different
isoforms have been found for this gene.

Phospho-CCND3(S264) Antibody - References

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Kim, J., et al. Cytokine 50(1):42-49(2010)
Kamatani, Y., et al. Nat. Genet. 42(3):210-215(2010)
Gumina, M.R., et al. Cell Cycle 9(4):820-828(2010)
Radulovich, N., et al. Mol. Cancer 9, 24 (2010) :