

Cyclin D3 Antibody

Subcategory: Rabbit Polyclonal Antibody

Cat. No.: 254527

Unit: 0.1 mg

Description:

Cyclin D3 (CCND3) is a 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 G1/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 G1 phase. Cyclin D3 hypophosphorylates RB1 in early G1 phase. Cyclin D-CDK4 complexes are major integrators of various mitogenic and antimitogenic signals. Cyclin D3 is also a 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, it is required for nuclear translocation and activity of the cyclin D-CDK4 complex.

Isotype: Rabbit Ig

Applications: E, IHC, WB

Species Reactivity: H, M, R

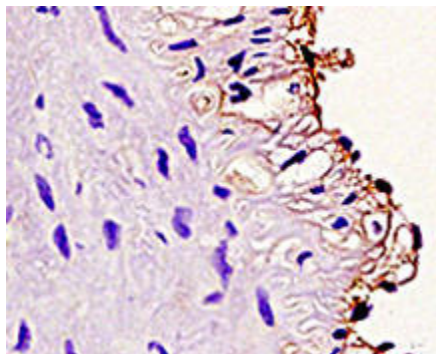
Format: Each vial contains 0.1 mg IgG in 0.1 ml (1 mg/ml) of PBS pH7.4, 25% glycerol, 0.1 mg/ml BSA with 0.09% sodium azide. Antibody was purified by Protein-A and antigen affinity chromatography.

Alternate Names: Cyclin D3; G1/S-specific cyclin-D3; CCND3

Accession No.: P30281

Antigen: KLH-conjugated synthetic peptide encompassing a sequence within the center region of human cyclin D3.

Application Notes: E: 1:500-1:1,000; WB: 1:100-1:500; IHC: 1:100-1:500



Cyclin D3 staining in rabbit carotid artery. Formalin-fixed paraffin-embedded rabbit carotid artery is stained with Cyclin D3 Antibody (Cat. No. 254527) used at 1:200 dilution.

Storage: Store at -20°C. Minimize freeze-thaw cycles. Product is guaranteed one year from the date of shipment.

For research use only, not for diagnostic or therapeutic procedures.