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Product datasheet for TA397443S

Ccnd3 Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FC, IHC, IP, WB
Recommended Dilution:	**WB**: 1.0 ug/ml **IHC**: 4µg/mL **FC**: 4µg/mL **ELISA**: 1:1000 - 1:5000
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the C-terminal domain of mouse Cyclin D3 protein.
Specificity:	Cyclin D3 affinity-purified antibody is directed against Cyclin D3 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. ELISA and western blot show equivalent reactivity against phosphorylated and non-phosphorylated Cyclin D3.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	cyclin D3
Database Link:	Entrez Gene 12445 Mouse P30282

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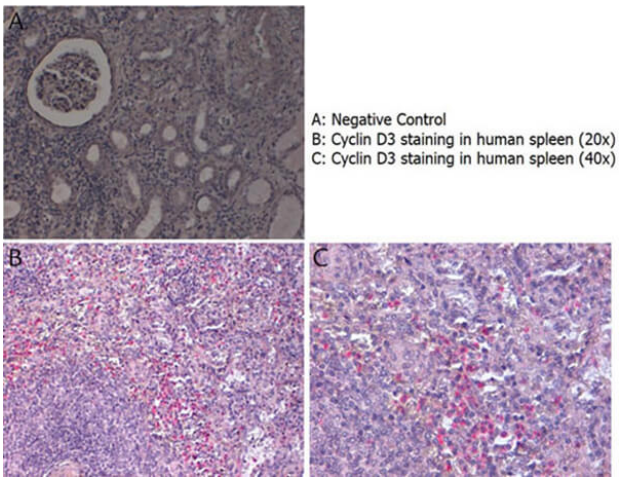
Background: Anti-Cyclin D3 antibody was designed, produced, and validated as part of the Joy Cappel Young Investigator Award (JCYIA). Cyclin D3 belongs to a highly conserved cyclin family, whose members are the ultimate recipients of oncogenic signals. Cyclin D3 is a key component of the cell cycle progression machinery and induces progression through the G1 phase of the cell cycle. Cyclin D3 is expressed in nearly all proliferating cells, and shows the most broad expression pattern of all three D-type (D1-D3) cyclins. Cyclin D3 is encoded from the 6p21 chromosome region and the protein is predominantly localized in the nucleus. Once induced, cyclin D3 binds and activates its associated cyclin-dependent kinases CDK4 and CDK6. Amplification of the cyclin D3 gene and overexpression of cyclin D3 protein is seen in several human cancers. A large number of human malignancies contain lesions in pathways impacting on cyclin D3. Abnormal expression of Cyclin D3 is believed to be a driving force in several human cancers. A possible role for cyclin D3 in the malignancies of the lymphoid system is suggested by the observations that cyclin D3 gene is rearranged in several neoplastic diseases such as diffuse large B cell lymphomas or multiple myelomas. Anti-Cyclin D3 is ideal for researchers interested in Cancer Research and Immunology research.

Synonyms: rabbit anti-Cyclin D3 antibody, G1/S-specific cyclin-D3, Ccnd3, Cyl-3

Note: This affinity purified antibody has been tested for use in ELISA, immunohistochemistry, flow cytometry, and by immunoprecipitation. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 32.4 kDa in size corresponding to Cyclin D3 protein by western blotting in the appropriate stimulated tissue or cell lysate or extract. This reagent reacts equally to phosphorylated and non-phosphorylated Cyclin D3 by ELISA and western blotting.

Product images:



Immunohistochemistry with anti-Cyclin D3 antibody showing Cyclin D3 staining in nucleus of lymphocytes in human spleen at 20x and 40x (B & C). Formalin fixed/paraffin embedded sections were subjected to heat induced epitope retrieval (HIER) at pH 6.2 and then incubated with rabbit anti-mouse Cyclin D3 antibody at 4.0 µg/ml for 60 minutes. The reaction was developed using MACH 4 universal AP polymer detection system and visualized with WARP RED.