

Product Datasheet

Cyclin D1 Antibody (SP4) NB600-584-0.05ml

Unit Size: 0.05 ml

Store at 4C. Do not freeze.

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Publications: 6

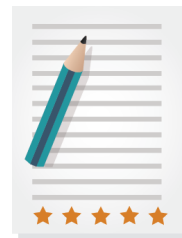
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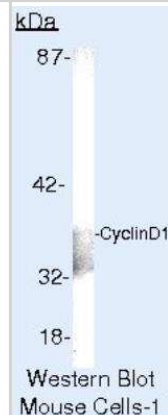


NB600-584-0.05ml**Cyclin D1 Antibody (SP4)**

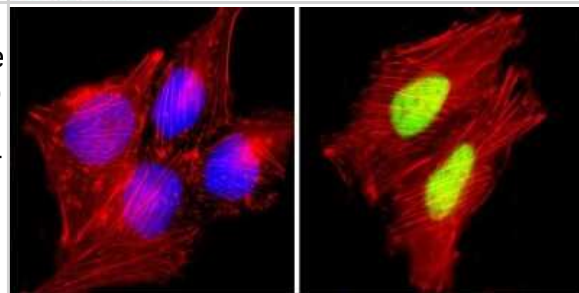
Product Information	
Unit Size	0.05 ml
Concentration	This product is unpurified. The exact concentration of antibody is not quantifiable.
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	SP4
Preservative	0.9% Sodium Azide
Isotype	IgG
Purity	Tissue culture supernatant
Buffer	Tissue culture supernatant
Product Description	
Host	Rabbit
Gene ID	595
Gene Symbol	CCND1
Species	Human, Mouse, Rat, Baboon
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 22354185). Baboon reactivity reported in scientific literature (PMID: 17210761)
Specificity/Sensitivity	Cyclin D1 (SP4)
Immunogen	Synthetic peptide from C-terminus of human cyclin D1 (within amino acids 250-295 of P24385 - UniProt).
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1:100 - 1:2000, Immunohistochemistry 1:25-50, Immunocytochemistry/ Immunofluorescence 1:100 - 1:500, Immunohistochemistry-Paraffin 1:25-50
Application Notes	This antibody can be used in Western Blot and Immunohistochemistry-Paraffin. For IHC, staining of formalin-fixed tissues is required by boiling tissue sections in 10mM citrate buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min. In Western Blot, a 33kDa band is seen. *Optimal dilutions should be determined by the end user. Use in Immunocytochemistry/immunofluorescence reported in scientific literature (PMID 24599075)

Images

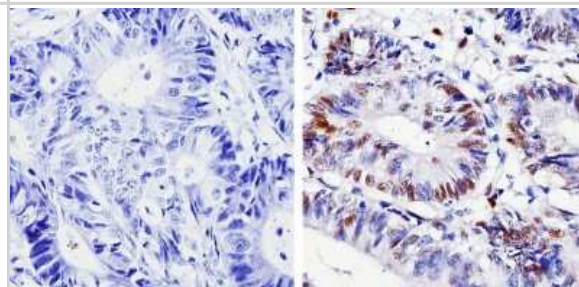
Western Blot: Cyclin D1 Antibody (SP4) [NB600-584] - Analysis of MAD109 Cells.



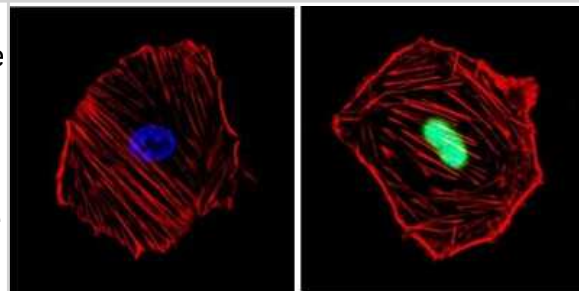
Immunocytochemistry/Immunofluorescence: Cyclin D1 Antibody (SP4) [NB600-584] - Analysis of Cyclin D1/Bcl-1 (green) showing staining in the nucleus of HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Cyclin D1/Bcl-1 monoclonal antibody in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI.



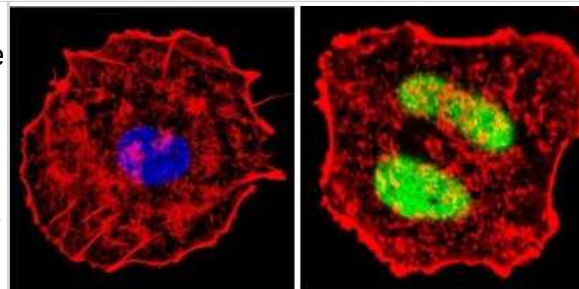
Immunohistochemistry-Paraffin: Cyclin D1 Antibody (SP4) [NB600-584] - Analysis showing staining in the nucleus of human colon carcinoma (right) compared with a negative control in the absence of primary antibody (left).



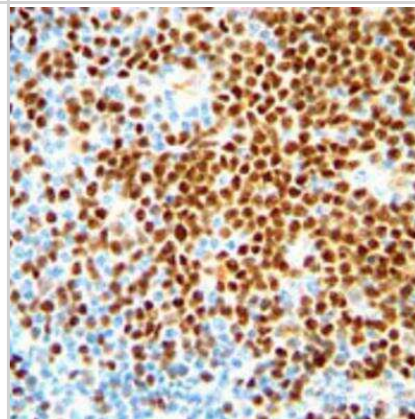
Immunocytochemistry/Immunofluorescence: Cyclin D1 Antibody (SP4) [NB600-584] - Analysis of Cyclin D1/Bcl-1 (green) showing staining in the nucleus of NIH-3T3 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Cyclin D1/Bcl-1 monoclonal antibody in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI.



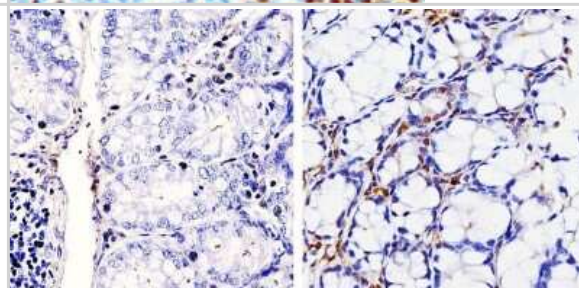
Immunocytochemistry/Immunofluorescence: Cyclin D1 Antibody (SP4) [NB600-584] - Analysis of Cyclin D1/Bcl-1 (green) showing staining in the nucleus of MCF-7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with a Cyclin D1/Bcl-1 monoclonal antibody in 3% BSA-PBS at a dilution of 1:200 and incubated overnight at 4C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight-conjugated secondary antibody in PBS at room temperature in the dark. F-actin (red) was stained with a fluorescent red phalloidin and nuclei (blue) were stained with Hoechst or DAPI.



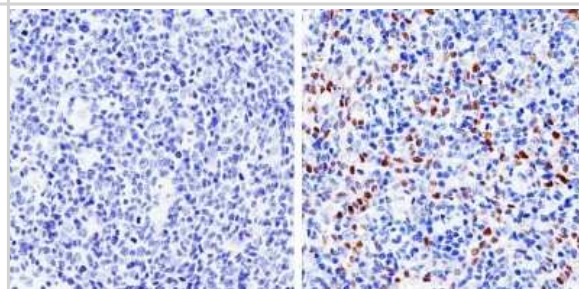
Immunohistochemistry-Paraffin: Cyclin D1 Antibody (SP4) [NB600-584] - Staining of human mantle cell lymphoma stained. Note nuclear staining of tumor cells.



Immunohistochemistry-Paraffin: Cyclin D1 Antibody (SP4) [NB600-584] - Analysis showing staining in the nucleus of paraffin-treated mouse colon tissue (right) compared with a negative control in the absence of primary antibody (left).



Immunohistochemistry-Paraffin: Cyclin D1 Antibody (SP4) [NB600-584] - Analysis showing staining in the nucleus of human tonsil tissue (right) compared with a negative control in the absence of primary antibody (left).



Publications

McAninch D, Makela JA, La HM et al. SOX3 promotes generation of committed spermatogonia in postnatal mouse testes Sci Rep 2020-04-21 [PMID: 32317665] (IF/IHC, Mouse)

Hacker K, Benke S, Agerer B et al. DDX5 plays essential transcriptional and post-transcriptional roles in the maintenance and function of spermatogonia Nat Commun 2019-05-23 [PMID: 31123254] (WB, Mouse)

Cho S, Chae JS, Shin H et al. Hormetic dose response to L-ascorbic acid as an anti-cancer drug in colorectal cancer cell lines according to SVCT-2 expression. Sci Rep. 2018-07-27 [PMID: 30054560] (WB, Human)

Kuo WL, Sharifi MN, Lingen MW et al. p62/SQSTM1 Accumulation in Squamous Cell Carcinoma of Head and Neck Predicts Sensitivity to Phosphatidylinositol 3-Kinase Pathway Inhibitors. PLoS ONE 2014-03-06 [PMID: 24599075] (ICC/IF, Human)

Kuo WL, Liu J, Mauceri H et al. Efficacy of the multi-kinase inhibitor enzastaurin is dependent on cellular signaling context. Mol Cancer Ther 2010-10-01 [PMID: 20876745] (WB, Human)

Cheuk W et al. Consistent immunostaining for cyclin D1 can be achieved on a routine basis using a newly available rabbit monoclonal antibody. Am J Surg Pathol 28:801-7. 2004-01-01 [PMID: 15166673]





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