

Product Datasheet

Cyclin D1 Antibody (SPM587)

NBP2-32840-0.1mg

Unit Size: 0.1 mg

Store at 4C.

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NBP2-32840-0.1mg

Cyclin D1 Antibody (SPM587)

Product Information	
Unit Size	0.1 mg
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	SPM587
Preservative	0.05% Sodium Azide
Isotype	IgG2a Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA
Target Molecular Weight	36 kDa

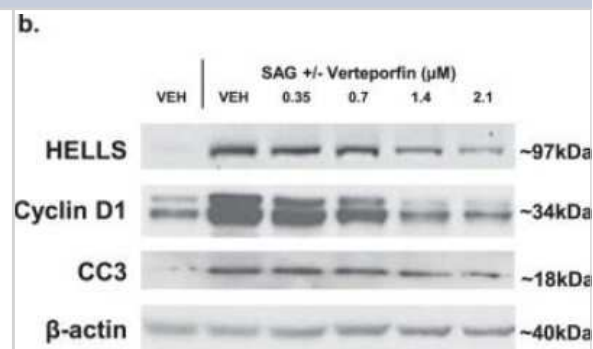
Product Description	
Description	200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0 mg/ml. (NBP2-34816) Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80C.
Host	Mouse
Gene ID	595
Gene Symbol	CCND1
Species	Human, Mouse, Rat, Monkey
Marker	G1-Cyclin & Mantle Cell Marker
Specificity/Sensitivity	Recognizes a protein of 36kDa, identified as cyclin D1. Cyclin D1, one of the key cell cycle regulators, is a putative proto-oncogene overexpressed in a wide variety of human neoplasms. This antibody neutralizes the activity of cyclin D1 in vivo. About 60% of mantle cell lymphomas (MCL) contain a t(11; 14)(q13; q32) translocation resulting in over-expression of cyclin D1. This antibody is useful in identifying mantle cell lymphomas (cyclin D1 positive) from CLL/SLL and follicular lymphomas (cyclin D1 negative). Occasionally, hairy cell leukemia and plasma cell myeloma weakly express Cyclin D1.
Immunogen	Human recombinant full length cyclin D1 protein (Uniprot: P24385)

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml
Application Notes	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined. WB reported in a verified customer review.

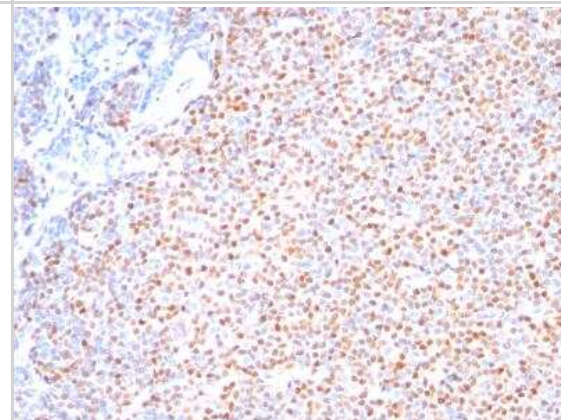


Images

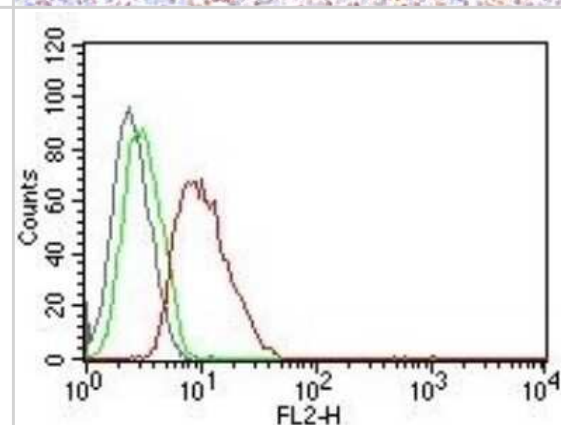
Western Blot: Cyclin D1 Antibody (SPM587) [NBP2-32840] - HELLS expression and protein levels are modulated with YAP1/TEAD inhibition downstream of SHH signaling. Western blot showing protein levels of HELLS, cleaved caspase 3 (CC3), and Cyclin D1 in verteporfin treated CGNPs. Blot is representative of three replicates. Full-length blots are presented in Supplementary Fig. S4. Image collected and cropped by CiteAb from the following publication (<https://www.nature.com/articles/s41598-019-50088-1>), licensed under a CC-BY license.



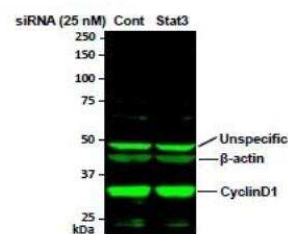
Immunohistochemistry-Paraffin: Cyclin D1 Antibody (SPM587) [NBP2-32840] - Formalin-paraffin human Mantle Cell Lymphoma stained with Cyclin D1 Ab (Clone SPM587).



Flow Cytometry: Cyclin D1 Antibody (SPM587) [NBP2-32840] - Flow Cytometric analysis of human Cyclin D1 on MCF-7 cells. Black: cells alone; Green: Isotype Control; Red: PE-labeled Cyclin D1 Monoclonal Antibody (SPM587).

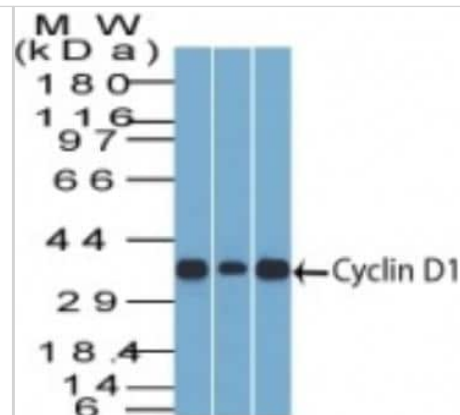


Western Blot: Cyclin D1 Antibody (SPM587) [NBP2-32840] - analysis of Cyclin D1 in human breast cancer cell line MDA-MB-231 cell lysate using anti-Cyclin D1. Image from verified customer review.

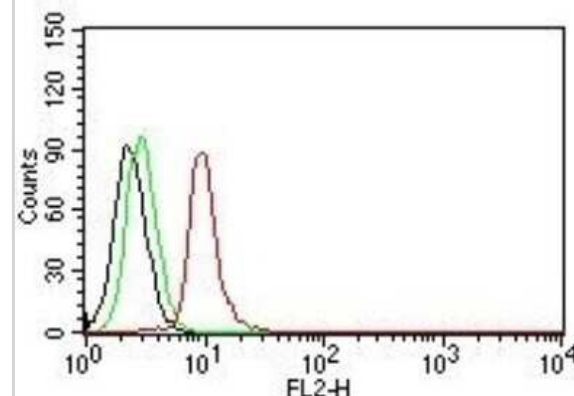


50 μg of whole cell lysate of human breast cancer cell line MDA-MB-231 was used, and the NC membrane was blotted with primary antibodies against Cyclin D1 (mouse, NBP2-32840) and β-actin (mouse, Santa Cruz Biotech) and Li-Cor anti-mouse secondary antibody in TBS-T buffer.

Western Blot: Cyclin D1 Antibody (SPM587) [NBP2-32840] - Western Blot of cyclin D1 in (1) C2C12 (2) HepG2 & (3) NIH3T3 Lysate with Cyclin D1 Ab (SPM587)



Flow Cytometry: Cyclin D1 Antibody (SPM587) [NBP2-32840] - Flow Cytometric analysis of human Cyclin D1 on Jurkat cells. Black: cells alone; Green: Isotype Control; Red: PE-labeled Cyclin D1 Monoclonal Antibody (SPM587).



Publications

Shaan AK, Teshima THN, Tucker AS, Proctor GB. Inhibition of Aurora Kinase B activity disrupts development and differentiation of salivary glands *Cell Death Discovery* 2021-01-18 [PMID: 33462217] (Immunohistochemistry)

Cai Z, Wang J, Li Y et al. Overexpressed Cyclin D1 and CDK4 proteins are responsible for the resistance to CDK4/6 inhibitor in breast cancer that can be reversed by PI3K/mTOR inhibitors *Science China. Life sciences* 2022-08-11 [PMID: 35982377]

Ding Z, Qiu M, Alharbi M et al. FOXO1 expression in chondrocytes modulates cartilage production and removal in fracture healing *Bone* 2021-03-04 [PMID: 33662610] (FLOW, Mouse)

Details:

Citation using the Alexa Fluor 488 version of this antibody.

Gul HF, Ilhan N, Ilhan N et al. The Combined Effect of Pomegranate Extract and Tangeretin on the DMBA-induced Breast Cancer Model *The Journal of nutritional biochemistry* 2020-12-13 [PMID: 33326843] (WB, Rat)

Shi Q, Li Y, Li S et al. LncRNA DILA1 inhibits Cyclin D1 degradation and contributes to tamoxifen resistance in breast cancer *Nat Commun* 2020-11-02 [PMID: 33139730] (IHC-P, Human)

Xu W, Chen S, Wang X et al. Methylprednisolone potentiates tetrandrine pharmacodynamics against human T lymphoblastoid leukemia MOLT-4 cells via regulation of NF-kappa B activation and cell cycle transition *Steroids* 2020-08-17 [PMID: 32818521]

Xu W, Wu H, Chen S et al. Cytotoxic effects of vitamins K1, K2 and K3 against human T lymphoblastoid leukemia cells through apoptosis induction and cell cycle arrest *Chem Biol Drug Des* 2020-04-18 [PMID: 32305047] (Human)

Robinson MH, Maximov V, Lallani S et al. Upregulation of the chromatin remodeler HELLS is mediated by YAP1 in Sonic Hedgehog Medulloblastoma *Sci Rep* 2019-09-20 [PMID: 31541170] (WB, Mouse)

Chelsky ZL, Yue P, Kondratyuk TP et al. A Resveratrol Analogue Promotes ERKMAPK-Dependent Stat3 Serine and Tyrosine Phosphorylation Alterations and Antitumor Effects In Vitro against Human Tumor Cells *Mol. Pharmacol.* 2015-09-01 [PMID: 26138072] (Human)



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Products Related to NBP2-32840-0.1mg

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
NBP2-34816AF488	Cyclin D1 Antibody (SPM587) [Alexa Fluor® 488]

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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