

Product Datasheet

Cyclin T2 Antibody - BSA Free NBP1-87592

Unit Size: 0.1 ml

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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NBP1-87592

Cyclin T2 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

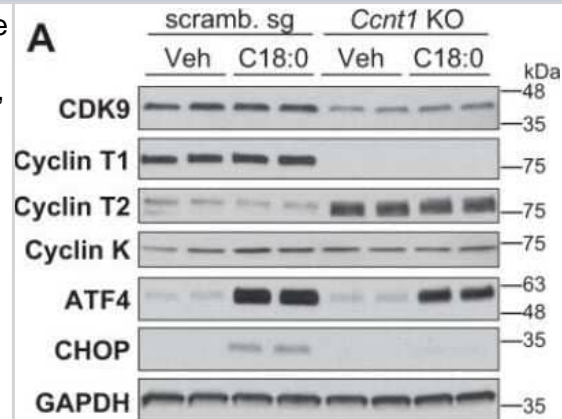
Product Description	
Description	Novus Biologicals Knockout (KO) Validated Rabbit Cyclin T2 Antibody - BSA Free (NBP1-87592) is a polyclonal antibody validated for use in IHC, WB and ICC/IF. Anti-Cyclin T2 Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	905
Gene Symbol	CCNT2
Species	Human
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: KAGSSKHHGPISTTPGIIPQKMSLDKYREKRKLETLDLDVRDHYIAAQVEQQHK QGQSQAAASSSSVTSPIKMKIPIANTEKYMADKKEKSGSLKLRIPPTDKSASKE ELKMKIKVSSSERHSSSDEGSGKSKHSSPH

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Chromatin Immunoprecipitation (ChIP), Knockout Validated
Recommended Dilutions	Western Blot Reported in scientific literature (PMID: 30209133), Immunohistochemistry 1:200 - 1:500, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:200 - 1:500, Chromatin Immunoprecipitation (ChIP) 1-10µg per reaction, Knockout Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

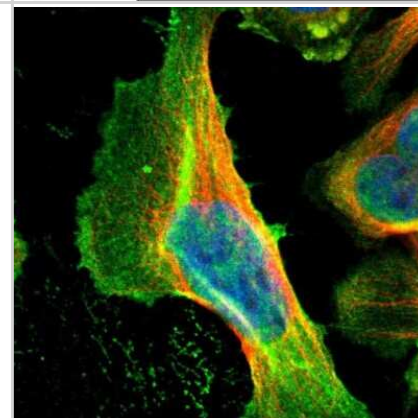


Images

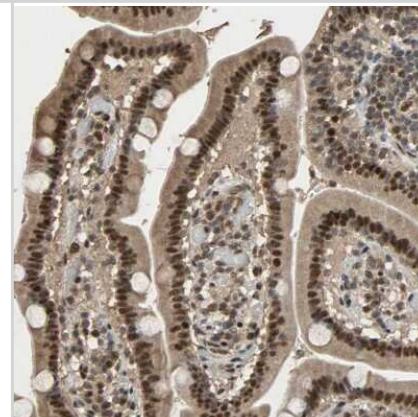
Western Blot: Cyclin T2 Antibody [NBP1-87592] - Cyclin T1 (*Ccnt1*) gene is required for ER stress-mediated CHOP induction and vascular calcification. Immunoblot analysis of CDK9, cyclin T1, cyclin T2, cyclin K, ATF4, CHOP, and GAPDH proteins in BSA (Veh) or 500 μ m C18:0 treated scrambled (Scramb.) sg or *Ccnt1* KO VSMCs for 6 h. Image collected and cropped by CiteAb from the following publication (<https://www.jbc.org/lookup/doi/10.1074/jbc.RA118.004706>), licensed under a CC-BY license.



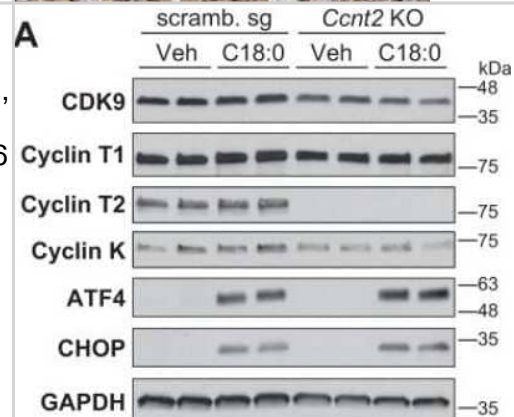
Immunocytochemistry/Immunofluorescence: Cyclin T2 Antibody [NBP1-87592] - Immunofluorescent staining of human cell line U-2 OS shows localization to nucleoplasm, plasma membrane & cytosol.



Immunohistochemistry-Paraffin: Cyclin T2 Antibody [NBP1-87592] - Staining of human duodenum shows strong nuclear positivity in glandular cells.

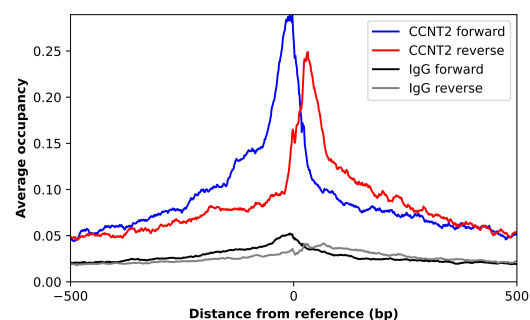
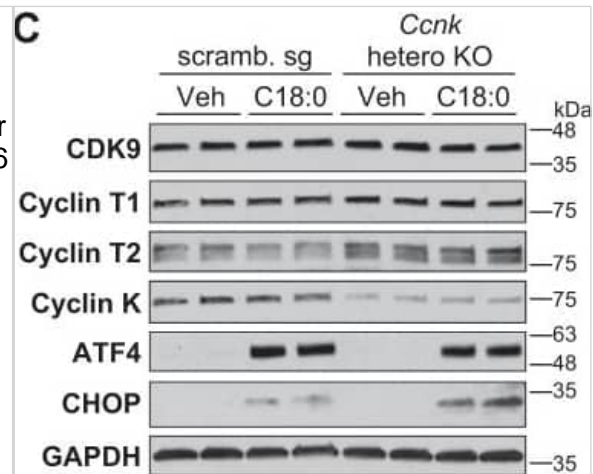


Western Blot: Cyclin T2 Antibody [NBP1-87592] - Cyclin T2 (*Ccnt2*) and cyclin K (*Ccnk*) deficiency induces CHOP expression and calcification, opposite of cyclin T1 deficiency. Immunoblot analysis of CDK9, cyclin T1, cyclin T2, cyclin K, ATF4, CHOP, and GAPDH proteins in BSA (Veh) or 500 μ m C18:0 treated scrambled (Scramb.) sg or *Ccnt2* KO VSMCs for 6 h. Image collected and cropped by CiteAb from the following publication (<https://www.jbc.org/lookup/doi/10.1074/jbc.RA118.004706>), licensed under a CC-BY license.



Western Blot: Cyclin T2 Antibody [NBP1-87592] - Cyclin T2 (Ccnt2) & cyclin K (Ccnk) deficiency induces CHOP expression & calcification, opposite of cyclin T1 deficiency. A, immunoblot analysis of CDK9, cyclin T1, cyclin T2, cyclin K, ATF4, CHOP, & GAPDH proteins in BSA (Veh) or 500 μ m C18:0 treated scrambled (Scramb.) sg or Ccnt2 KO VSMCs for 6 h. B, qRT-PCR analysis of CHOP in BSA (Veh) or 250 μ m C18:0 treated Scramb. sg or Ccnt2 KO VSMCs (n = 4). C, immunoblot analysis of CDK9, cyclin T1, cyclin T2, cyclin K, ATF4, CHOP, & GAPDH proteins in BSA (Veh) or 500 μ m C18:0 treated Scramb. sg or Ccnk heterozygous KO VSMCs for 6 h. D, qRT-PCR analysis of CHOP in BSA (Veh) or 250 μ m C18:0 treated Scramb. sg or Ccnk heterozygous KO VSMCs (n = 4). E, mineralization of Ccnt2 KO VSMCs. VSMCs were incubated with 2.0 mm phosphate with or without 250 μ m C18:0 for 7 days (n = 6). F, mineralization of Ccnk hetero-KO VSMCs. VSMCs were incubated with 2.0 mm phosphate with or without 250 μ m C18:0 for 7 days (n = 6). One-way ANOVA with a Student-Newman post hoc test was used for statistical analysis. *, p < 0.05. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30209133>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.

ChIP-Exo-Seq composite graph for Anti-CCNT2 (NBP1-87592) tested in K562 cells. Strand-specific reads (blue: forward, red: reverse) and IgG controls (black: forward, grey: reverse) are plotted against the distance from a composite set of reference binding sites. The antibody exhibits robust target enrichment compared to a non-specific IgG control and precisely reveals its structural organization around the binding site. Data generated by Prof. B. F. Pugh's Lab at Cornell University.



Publications

Zhang C, Wang M, Li Y, Zhang Y Profiling and functional characterization of maternal mRNA translation during mouse maternal-to-zygotic transition Science advances 2022-02-04 [PMID: 35108058] (ICC/IF, Mouse)

Shiozaki Y, Okamura K, Kohno S et al. The CDK 9-cyclin T1 complex mediates saturated fatty acid-induced vascular calcification by inducing expression of the transcription factor CHOP. J. Biol. Chem. 2018-09-12 [PMID: 30209133] (WB, Human)



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Products Related to NBP1-87592

NBP1-87592PEP	Cyclin T2 Recombinant Protein Antigen
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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