Product Datasheet

APCDD1 Antibody - BSA Free
NB110-92756

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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Publications: 2

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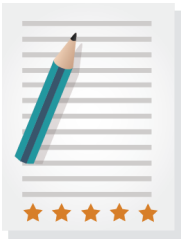
Updated 10/23/2024 v.20.1



NB110-92756

APCDD1 Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	1.3 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	58 kDa

Product Description

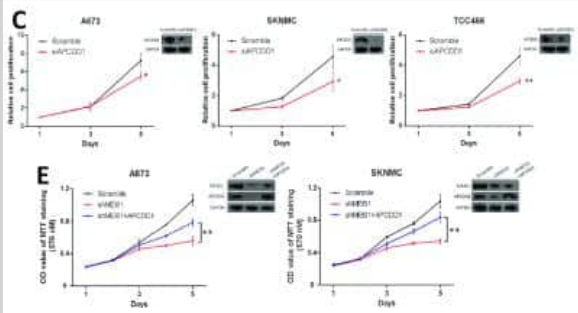
Host	Rabbit
Gene ID	147495
Gene Symbol	APCDD1
Species	Human, Mouse, Chicken, Reptile
Reactivity Notes	Turtle.
Immunogen	Synthetic peptide made to an internal portion of human APCDD1 (within residues 400-500). [Swiss-Prot# Q8J025]

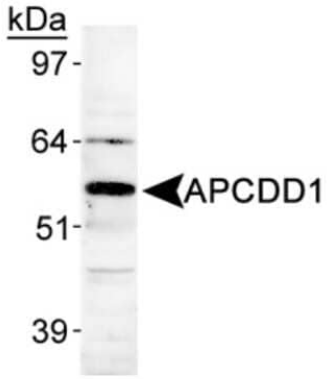
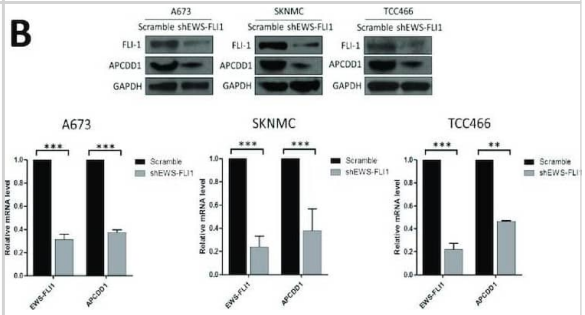
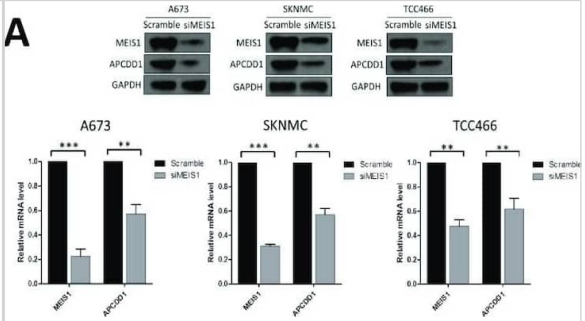
Product Application Details

Applications	Western Blot, Knockdown Validated
Recommended Dilutions	Western Blot 0.5 ug/ml, Knockdown Validated
Application Notes	This APCDD1 antibody is useful for Western blot, where a band is seen ~58 kDa. The observed molecular weight of the protein may vary from the listed predicted molecular weight due to post translational modifications, post translation cleavages, relative charges, and other experimental factors.

Images

Knockdown Validated: APCDD1 Antibody - BSA Free [NB110-92756] - APCDD1 knockdown potently (C) inhibited cell proliferation. Error bars represent mean +/- SD of three replicates (*P < 0.05, **P < 0.01, ***P < 0.001). (E) A673 and SKNMC cells stably expressing shMEIS1 were transiently transfected with plasmid encoding APCDD1, and subjected to immunoblotting and MTT assays. Bars represent mean +/- SD of three replicates (**P < 0.01). Image collected and cropped by CiteAb from the following publication (https://academic.oup.com/nar/article/47/3/1255/5212009) licensed under a CC-BY license.



Western Blot: APCDD1 Antibody [NB110-92756] - Detection of APCDD1 in human heart lysate	
Western Blot: APCDD1 Antibody - BSA Free [NB110-92756] - APCDD1 is co-regulated by MEIS1 & EWS-FLI1 & mediates the oncogenic role of MEIS1. (A, B) Silencing of (A) MEIS1 or (B) EWS-FLI1 downregulated expression of both APCDD1 mRNA & protein. Error bars represent mean ± SD of three replicates (**P < 0.01, ***P < 0.001). (C, D) APCDD1 knockdown potently (C) inhibited cell proliferation & (D) decreased colony formation. Error bars represent mean ± SD of three replicates (*P < 0.05, **P < 0.01, ***P < 0.001). (E) A673 & SKNMC cells stably expressing shMEIS1 were transiently transfected with plasmid encoding APCDD1, & subjected to immunoblotting & MTT assays. Bars represent mean ± SD of three replicates (**P < 0.01). (F) Proposed model showing that MEIS1 & EWS-FLI1 co-operatively activate APCDD1 transcription, thereby promoting the malignant phenotype of Ewing sarcoma cells. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30496486), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	
Western Blot: APCDD1 Antibody - BSA Free [NB110-92756] - APCDD1 is co-regulated by MEIS1 & EWS-FLI1 & mediates the oncogenic role of MEIS1. (A, B) Silencing of (A) MEIS1 or (B) EWS-FLI1 downregulated expression of both APCDD1 mRNA & protein. Error bars represent mean ± SD of three replicates (**P < 0.01, ***P < 0.001). (C, D) APCDD1 knockdown potently (C) inhibited cell proliferation & (D) decreased colony formation. Error bars represent mean ± SD of three replicates (*P < 0.05, **P < 0.01, ***P < 0.001). (E) A673 & SKNMC cells stably expressing shMEIS1 were transiently transfected with plasmid encoding APCDD1, & subjected to immunoblotting & MTT assays. Bars represent mean ± SD of three replicates (**P < 0.01). (F) Proposed model showing that MEIS1 & EWS-FLI1 co-operatively activate APCDD1 transcription, thereby promoting the malignant phenotype of Ewing sarcoma cells. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/30496486), licensed under a CC-BY license. Not internally tested by Novus Biologicals.	

Publications

Ding W, Li X, Zhang J et al. Adaptive Functions of Structural Variants in Human Brain Development bioRxiv 2023-09-26 (Western Blot, Mouse)
Lin L, Huang M, Shi X et al. Super-enhancer-associated MEIS1 promotes transcriptional dysregulation in Ewing sarcoma in co-operation with EWS-FLI1. Nucleic Acids Res. 2018-11-28 [PMID: 30496486] (WB, Human)

Procedures

Serum protocol for APCDD1 Antibody (NB110-92756)
APCDD1 Antibody:
Western Blot Protocol

1. Perform SDS-PAGE (4-12% MOPS) on samples to be analyzed, loading 23 ug of total protein per lane.
2. Transfer proteins to Nitrocellulose according to the instructions provided by the manufacturer of the transfer apparatus.
3. Rinse membrane with dH2O and then stain the blot using Ponceau S for 1-2 minutes to access the transfer of proteins onto the nitrocellulose membrane. Rinse the blot in water to remove excess stain and mark the lane locations and locations of molecular weight markers using a pencil.
4. Rinse the blot in TBS for approximately 5 minutes.
5. Block the membrane using 5% NFDM + 1% BSA in TBS + Tween, 1 hour at RT.
6. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
7. Dilute the rabbit anti-APCDD1 primary antibody (NB 110-92756) in blocking buffer and incubate 1 hour at room temperature.
8. Rinse the membrane in dH2O and then wash the membrane in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each.
9. Apply the diluted rabbit-IgG HRP-conjugated secondary antibody in blocking buffer (as per manufacturers instructions) and incubate 1 hour at room temperature.
10. Wash the blot in wash buffer [TBS + 0.1% Tween] 3 times for 10 minutes each (this step can be repeated as required to reduce background).
11. Apply the detection reagent of choice in accordance with the manufacturers instructions (Pierce ECL).

Note: Tween-20 can be added to the blocking or antibody dilution buffer at a final concentration of 0.05-0.2%, provided it does not interfere with antibody-antigen binding.

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Products Related to NB110-92756

NB820-59217	Human Heart Whole Tissue Lysate (Adult Whole Normal)
NB110-92756PEP	APCDD1 Antibody Blocking Peptide
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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