Product Datasheet

HDAC11 Antibody - BSA Free
NBP2-16789

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Reviews: 1 Publications: 2

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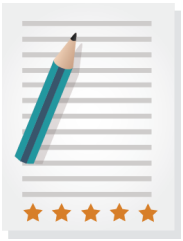
Updated 9/25/2025 v.20.1



NBP2-16789

HDAC11 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	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS, 20% Glycerol
Target Molecular Weight	39 kDa

Product Description

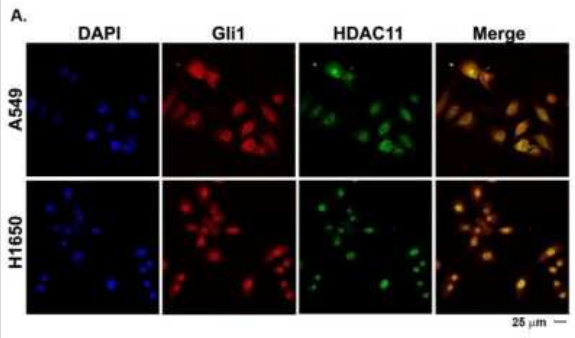
Description	Novus Biologicals Rabbit HDAC11 Antibody - BSA Free (NBP2-16789) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and Simple Western. Anti-HDAC11 Antibody: Cited in 1 publication. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	79885
Gene Symbol	HDAC11
Species	Human, Mouse
Reactivity Notes	Rat (89%), Bovine (88%)
Immunogen	Recombinant protein encompassing a sequence within the center region of human HDAC11. The exact sequence is proprietary.

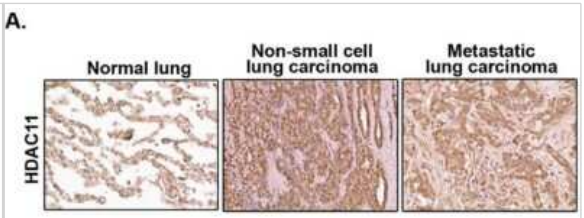
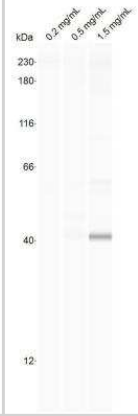
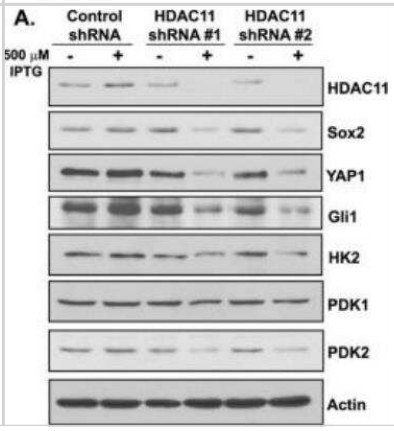
Product Application Details

Applications	Western Blot, Simple Western, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 1:500-1:3000, Simple Western 1:25, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence, Knockdown Validated
Application Notes	See Simple Western Antibody Database for Simple Western validation: Tested in Human SVG-A cell protein lysate, separated by Size, antibody dilution of 1:25

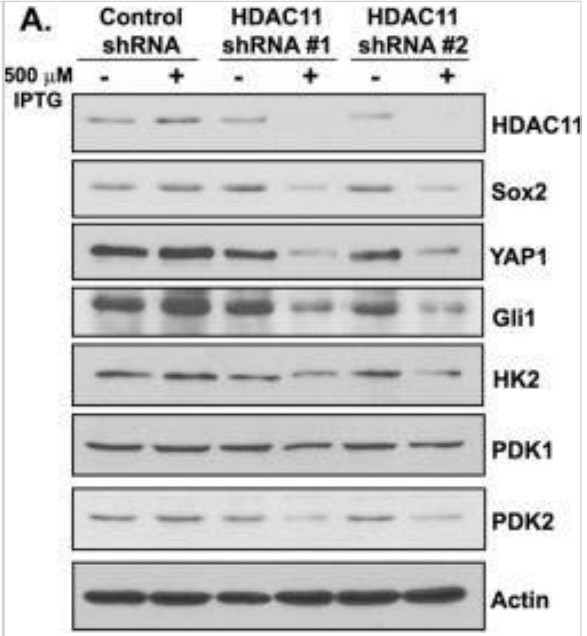
Images

Immunocytochemistry/Immunofluorescence: HDAC11 Antibody [NBP2-16789] - Sox2 gene expression is regulated by Gli1 and HDAC11. Double immunofuorescence assay with Gli1 and HDAC11 showed co-localization of both in A549 (upper panel) and H1650 (lower panel) cells. DAPI was used to stain the nucleus of the cells. Image collected and cropped by CiteAb from the following publication (www.nature.com/articles/s41598-020-61295-6) licensed under a CC-BY license.



Immunohistochemistry: HDAC11 Antibody [NBP2-16789] - HDAC11 expression in human lung tumor tissues and cells and its correlation with patient prognosis. Elevated HDAC11 staining is seen in NSCLC tissue and its metastatic sites as compared to the normal human lung tissue in TMA. Image collected and cropped by CiteAb from the following publication (www.nature.com/articles/s41598-020-61295-6) licensed under a CC-BY license.	
Simple Western: HDAC11 Antibody [NBP2-16789] - 1:25 dilution against the indicated concentration of protein lysate of human SVG-A cells. Image submitted by a verified customer review.	
Western Blot: HDAC11 Antibody [NBP2-16789] - HDAC11 silencing decreases expression of downstream targets and abrogates self-renewal of CSCs. Depletion of HDAC11 using two IPTG inducible shRNA shows a significant decrease in Sox2, YAP1 and Gli1 protein expression as compared to IPTG treated control shRNA. The glycolysis pathway targets HK2 and PDK2 also show reduced protein expression in the absence of HDAC11. No change is observed in PDK1 expression; the full images of the western blots are provided as Supplementary Fig. 4. Image collected and cropped by CiteAb from the following publication (www.nature.com/articles/s41598-020-61295-6) licensed under a CC-BY license.	

Western Blot: HDAC11 Antibody [NBP2-16789] - HDAC11 silencing decreases expression of downstream targets & abrogates self-renewal of CSCs. (A) Depletion of HDAC11 using two IPTG inducible shRNA shows a significant decrease in Sox2, YAP1 & Gli1 protein expression as compared to IPTG treated control shRNA. The glycolysis pathway targets HK2 & PDK2 also show reduced protein expression in the absence of HDAC11. No change is observed in PDK1 expression; the full images of the western blots are provided as Supplementary Fig. 4. (B) Quantitation of the western blot band intensities using ImageJ analysis. (C) Sphere formation assay with SP cells from shHDAC11 H1650 cells treated with IPTG show abrogation of self-renewal ability in the absence of HDAC11. (D) Quantitation of sphere formation assay reveal that IPTG treated SP cells from two different clones of HDAC11 shRNA containing H1650 form fewer spheres as compared to IPTG untreated or control shRNA containing cells. (E,F) Real time PCR analysis of H1650 cells with two different HDAC11 shRNA show a decrease in mRNA expression of Sox2, HK2, PDK1, PDK2 with IPTG treatment. No significant change was observed in Oct4 & Nanog expression. The depletion of HDAC11 was confirmed using RT-PCR. Image collected & cropped by CiteAb from the following publication (https://pubmed.ncbi.nlm.nih.gov/32170113), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Zhang C, Weintraub N, Tang Y Identification of Critical Molecular Pathways Induced by HDAC11 Overexpression in Cardiac Mesenchymal Stem Cells. Biomolecules 2025-05-28 [PMID: 40427555]

Bora-Singhal N, Mohankumar D, Saha B et Al. Novel HDAC11 inhibitors suppress lung adenocarcinoma stem cell self-renewal and overcome drug resistance by suppressing Sox2 Sci Rep 2020-03-13 [PMID: 32170113] (MiAr, IF/IHC, Human)

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Products Related to NBP2-16789

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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