# Product Datasheet

## HDAC11 Antibody - BSA Free
## NBP2-16789

Unit Size: 0.1 ml

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

www.novusbio.com technical@novusbio.com

**Reviews: 1 Publications: 1**

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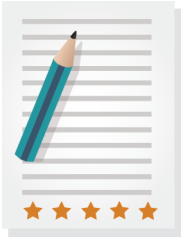
www.novusbio.com/NBP2-16789

Updated 4/13/2025 v.20.1





# NBP2-16789

HDAC11 Antibody - BSA Free

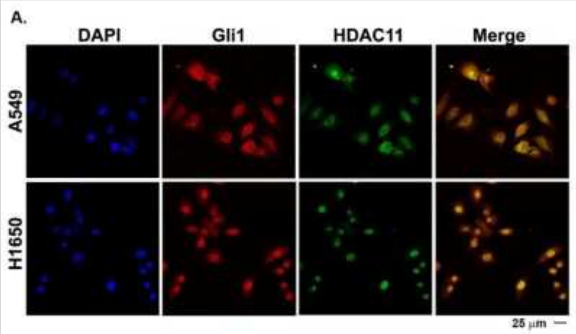
| Product Information | |
|---|---|
| **Unit Size** | 0.1 ml |
| **Concentration** | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| **Storage** | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles. |
| **Clonality** | Polyclonal |
| **Preservative** | 0.025% Proclin 300 |
| **Isotype** | IgG |
| **Purity** | Antigen Affinity-purified |
| **Buffer** | PBS, 20% Glycerol |
| **Target Molecular Weight** | 39 kDa |

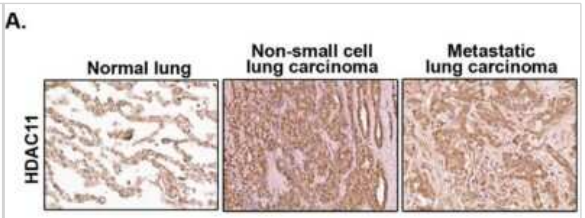
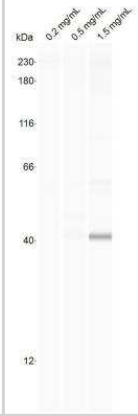
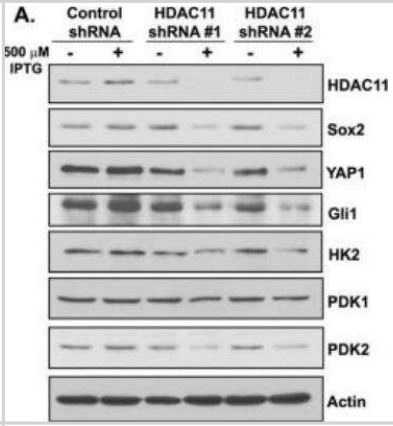
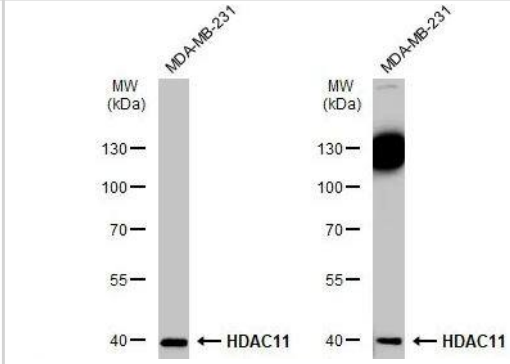
| Product Description | |
|---|---|
| **Host** | Rabbit |
| **Gene ID** | 79885 |
| **Gene Symbol** | HDAC11 |
| **Species** | Human, Mouse |
| **Reactivity Notes** | Rat (89%), Bovine (88%) |
| **Immunogen** | Recombinant protein encompassing a sequence within the center region of human HDAC11. The 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 Validated from a verified customer review., Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence, Knockdown Validated |

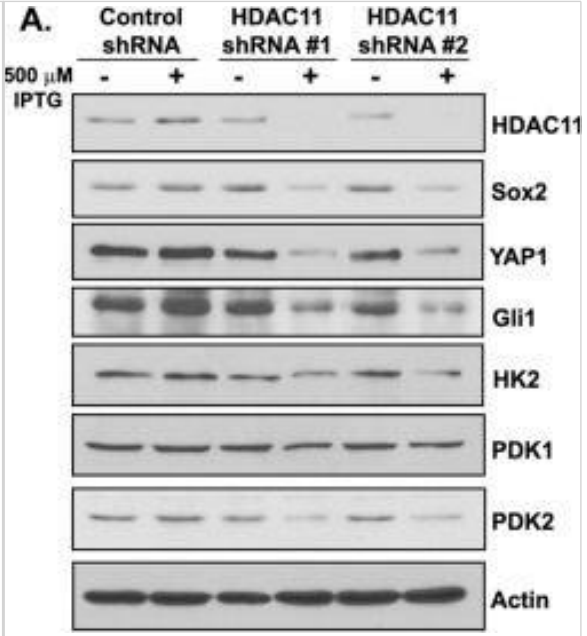
## Images

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] - Whole cell extract (30 ug) was separated by 10% SDS-PAGE, and the membrane was blotted with HDAC11 antibody diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody (NBP2-19301) was used to detect the primary antibody. |  |

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

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

| | |
|---|---|
| HAF008 | Goat anti-Rabbit IgG Secondary Antibody [HRP] |
| NB7160 | Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP] |
| NBP2-24891 | Rabbit IgG Isotype Control |
| NB100-56382PEP | HDAC11 Antibody Blocking Peptide |

**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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