

## Product datasheet for **AP11142PU-N**

### HDAC11 (N-term) Rabbit Polyclonal Antibody

#### Product data:

|                       |  |
|-----------------------|--|
| Product Type:         | Primary Antibodies   |
| Applications:         | IHC, WB  |
| Recommended Dilution: | ELISA: 1/1,000.<br>Western blot: 1/100-1/500.<br>Immunohistochemistry: 1/50-1/100.   |
| Reactivity:           | Human, Mouse   |
| Host:                 | Rabbit   |
| Isotype:              | Ig   |
| Clonality:            | Polyclonal   |
| Immunogen:            | This antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide selected from the N-terminal region of human HDAC11. |
| Specificity:          | This antibody is specific to HDAC11 (N-term).  |
| Formulation:          | PBS containing 0.09% (W/V) Sodium Azide as preservative.<br>State: Purified<br>State: Liquid purified Ig fraction.                             |
| Concentration:        | lot specific   |
| Purification:         | Protein G Chromatography, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.                   |
| Conjugation:          | Unconjugated   |
| Storage:              | Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.              |
| Stability:            | Shelf life: one year from despatch   |
| Gene Name:            | histone deacetylase 11   |
| Database Link:        | <a href="#">Entrez Gene 79885 Human Q96DB2</a>   |



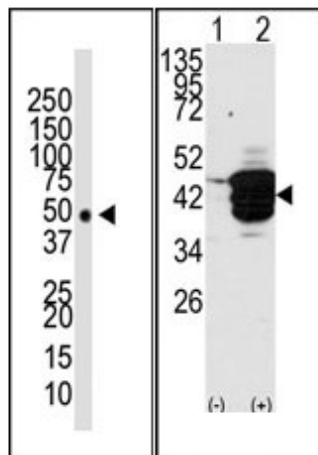
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**Background:**

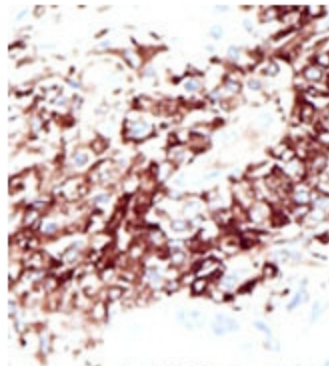
HDAC11 is responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. The predominantly nuclear HDAC11, which interacts with HDAC6, is weakly expressed in most tissues, and strongly expressed in brain, heart, skeletal muscle, kidney and testis. Its activity is inhibited by trapoxin, a known histone deacetylase inhibitor.

**Synonyms:**

Histone deacetylase 11, HD11

**Product images:**


(LEFT) Western blot analysis of anti-HDAC11 Pab in mouse brain tissue lysate. HDAC11 (arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence. (RIGHT) Western blot analysis of HDAC11 (arrow) using HDAC11 Antibody (N-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the HDAC11 gene (Lane 2) (Origene Technologies).



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.