

## Rabbit anti-Human HDAC2 Polyclonal Antibody | anti-HDAC2 antibody

HDAC2 Antibody (C-term)

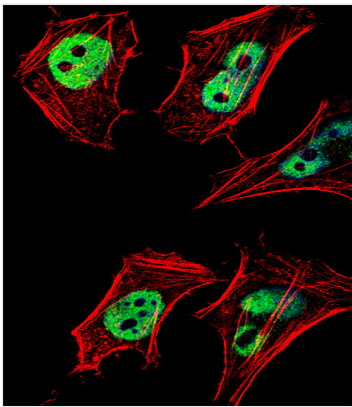
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                                  |
|-----------|--------|------------|---------------------------------------------------------------|
| AAA28801  | Rabbit | Human      | Western Blot, Immunohistochemistry, Immunofluorescence, ELISA |

### PRODUCT SYNONYMS

HDAC2; Polyclonal Antibody; HDAC2 Antibody (C-term); Histone deacetylase 2; HD2; anti-HDAC2 antibody

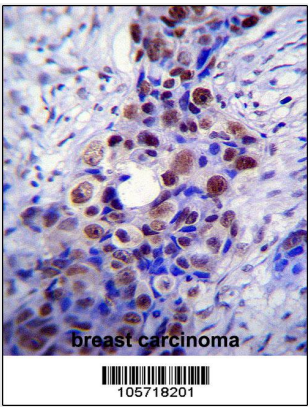
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                           |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                                                                                    |
| Reactivity                                      | Human                                                                                                                                                                                     |
| Clonality                                       | Polyclonal                                                                                                                                                                                |
| Isotype                                         | Ig                                                                                                                                                                                        |
| Specificity                                     | This HDAC2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 456-488 amino acids from the C-terminal region of human HDAC2.                    |
| Form/Format                                     | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS. |
| Sequence Length                                 | 488                                                                                                                                                                                       |
| Applicable Applications for anti-HDAC2 antibody | WB (Western Blot), IHC (Immunohistochemistry), IF (Immunofluorescence), ELISA                                                                                                             |
| Application Notes                               | WB:~1:1000<br>IF:~1:10~50<br>IHC-P:~1:10~50                                                                                                                                               |
| Subtitle                                        | Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                                                 |
| Cellular Location                               | Nucleus. Cytoplasm.                                                                                                                                                                       |
| Tissue Location                                 | Widely expressed; lower levels in brain and lung.                                                                                                                                         |
| Antigen Region                                  | 456-488 aa                                                                                                                                                                                |
| Antigen Type                                    | Synthetic Peptide                                                                                                                                                                         |
| Preparation and Storage                         | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                                    |



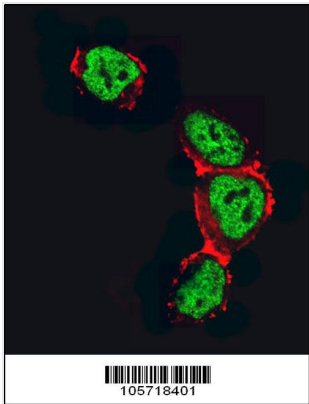
IF (Immunofluorescence)

Fluorescent confocal image of HeLa cell stained with HDAC2 Antibody (C-term). HeLa cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with HDAC2 primary antibody (1:25, 1 h at 37 degree C). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree C). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7 units/ml, 1 h at 37 degree C). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min). hHDAC2 immunoreactivity is localized to Nucleus significantly.



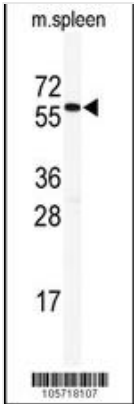
IHC (Immunohistochemistry-Paraffin)

HDAC2 Antibody (C-term) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of HDAC2 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



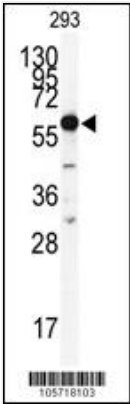
IF (Immunofluorescence)

Confocal immunofluorescent analysis of HDAC2 Antibody (C-term) with 293 cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red).



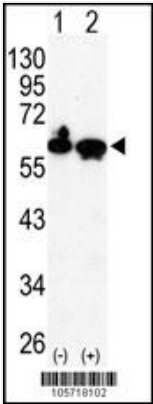
WB (Western Blot)

Western blot analysis of anti-HDAC2 Antibody (C-term) in mouse spleen tissue lysates (35 ug/lane). HDAC2 (arrow) was detected using the purified Pab.



WB (Western Blot)

Western blot analysis of anti-HDAC2 Antibody (C-term) in 293 cell line lysates (35 ug/lane). HDAC2 (arrow) was detected using the purified Pab.



WB (Western Blot)

Western blot analysis of HDAC2 (arrow) using rabbit polyclonal HDAC2 Antibody (C-term). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the HDAC2 gene (Lane 2) (Origene Technologies).

## ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-HDAC2 antibody</b> | <p>Description: Histone deacetylase 2 (HDAC2), or transcriptional regulator homolog RPD3 L1, is highly homologous to the yeast transcription factor RPD3 (reduced potassium dependency 3) gene. As in yeast, human HDA2 is likely to be involved in regulating chromatin structure during transcription. It has been implicated to associate with YY1, a mammalian zinc-finger transcription factor, which negatively regulates transcription by tethering RPD3 to DNA as a cofactor. This process is highly conserved from yeast to human.</p> <p>Background: 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. Forms transcriptional repressor complexes by associating with MAD, SIN3, YY1 and N-COR. Interacts in the late S-phase of DNA-replication with DNMT1 in the other transcriptional repressor complex composed of DNMT1, DMAP1, PCNA, CAF1. Deacetylates TSHZ3 and regulates its transcriptional repressor activity. Component of a RCOR/GFI/KDM1A/HDAC complex that suppresses, via histone deacetylase (HDAC) recruitment, a number of genes implicated in multilineage blood cell development. May be involved in the transcriptional repression of circadian target genes, such as PER1, mediated by CRY1 through histone deacetylation. Involved in MTA1-mediated transcriptional corepression of TFF1 and CDKN1A.</p> |
| <b>Product Categories/Family for anti-HDAC2 antibody</b>   | <a href="#">Primary Antibodies</a> ; <a href="#">Cardiovascular</a> ; <a href="#">Signal Transduction</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>References</b>                                          | Choi, Y.B., et al., J. Biol. Chem. 279 (49):50930-50941 (2004). Zhu, P., et al., Cancer Cell 5 (5):455-463 (2004). Longworth, M.S., et al., J. Virol. 78 (7):3533-3541 (2004). Lu, Y., et al., J. Biol. Chem. 278 (48):47792-47802 (2003). Verdin, E., et al., Trends Genet. 19 (5):286-293 (2003).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                                              |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | <a href="#">293336691</a>                                                                                                                                                    |
| <b>NCBI GeneID</b>                      | <a href="#">3066</a>                                                                                                                                                         |
| <b>NCBI Accession #</b>                 | <a href="#">NP_001518.3</a>                                                                                                                                                  |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_001527.3</a>                                                                                                                                                  |
| <b>UniProt Accession #</b>              | <a href="#">Q92769</a> ; <a href="#">Q5SRI8</a> ; <a href="#">Q5SZ86</a> ; <a href="#">Q8NEH4</a> ; <a href="#">B3KRS5</a> ; <a href="#">B4DL58</a> ; <a href="#">E1P561</a> |
| <b>Molecular Weight</b>                 | 55364 Da                                                                                                                                                                     |
| <b>NCBI Official Full Name</b>          | histone deacetylase 2                                                                                                                                                        |
| <b>NCBI Official Synonym Full Names</b> | histone deacetylase 2                                                                                                                                                        |
| <b>NCBI Official Symbol</b>             | HDAC2                                                                                                                                                                        |
| <b>NCBI Official Synonym Symbols</b>    | HD2; RPD3; YAF1                                                                                                                                                              |
| <b>NCBI Protein Information</b>         | histone deacetylase 2                                                                                                                                                        |
| <b>UniProt Protein Name</b>             | Histone deacetylase 2                                                                                                                                                        |
| <b>UniProt Gene Name</b>                | <b>HDAC2</b>                                                                                                                                                                 |
| <b>UniProt Synonym Gene Names</b>       | HD2                                                                                                                                                                          |
| <b>UniProt Entry Name</b>               | HDAC2_HUMAN                                                                                                                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hdac2-antibody-western-blot-immunohistochemistry-immunofluorescence-elisa/28801>