

## Mouse HDAC1 Monoclonal Antibody | anti-HDAC1 antibody

HDAC1 antibody

|                               |                      |                                                                                           |
|-------------------------------|----------------------|-------------------------------------------------------------------------------------------|
| CATALOG #<br><b>AAA106292</b> | HOST<br><b>Mouse</b> | APPLICATIONS<br><b>Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay</b> |
|-------------------------------|----------------------|-------------------------------------------------------------------------------------------|

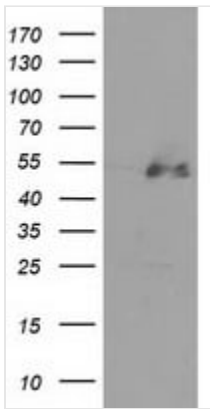
### PRODUCT SYNONYMS

HDAC1; Monoclonal Antibody; HDAC1 antibody; Monoclonal HDAC1; Anti-HDAC1; Histone deacetylase 1; HD1; RPD3; GON-10; RPD3L1; DKFZp686H12203; HDA 1c; HDA-1c; anti-HDAC1 antibody

### PRODUCT SPECIFICATIONS

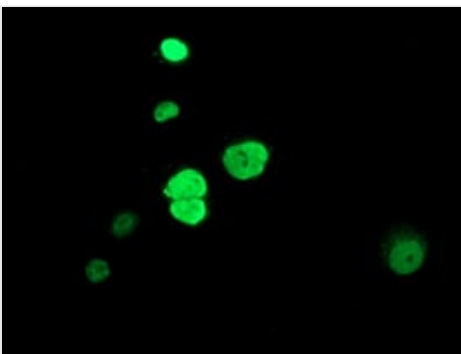
|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Isotype                                         | IgG2a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Clone Number                                    | 2 E9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Purity/Purification                             | HDAC1 antibody was purified by affinity chromatography.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Form/Format                                     | Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Concentration                                   | 500 ug-1 mg/ml (varies by lot)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Sequence Length                                 | 482                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Applicable Applications for anti-HDAC1 antibody | WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Biological Significance                         | Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. It also interacts with retinoblastoma tumor suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis. |
| Cross-Reactivity                                | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Immunogen                                       | HDAC1 antibody was raised in mouse using a full length recombinant protein of human HDAC1 (NP_004955) produced in HEK293T cells, as the immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Preparation and Storage                         | Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.                                                                                                                                                                                                                                                                                                                                                                                                                                       |

IMAGES



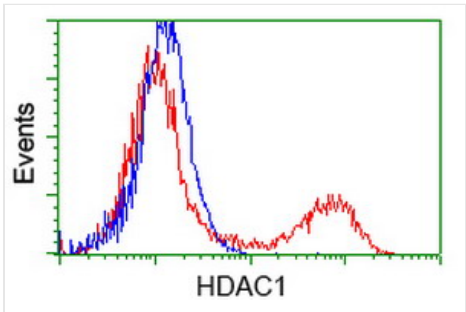
WB (Western Blot)

Western Blot analysis using HDAC1 antibodyWestern Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant HDAC1 protein (Right) or empty vector (Left) detected with HDAC1 antibody



IF (Immunofluorescence)

Immunofluorescent staining using HDAC1 antibodyImmunofluorescent staining of COS7 cells transiently transfected with recombinant HDAC1 protein using HDAC1 antibody



FCM/FACS (Flow Cytometry)

Flow Cytometric analysis using HDAC1 antibodyFlow Cytometric analysis of HEK293T cells transfected with either recombinant HDAC1 protein (red) or empty vector (blue) stained using HDAC1 antibody

ADDITIONAL INFORMATION

|                                                     |                                 |
|-----------------------------------------------------|---------------------------------|
| Related Product Information for anti-HDAC1 antibody | Mouse monoclonal HDAC1 antibody |
| Product Categories/Family for anti-HDAC1 antibody   | DNA & RNA                       |

NCBI AND UNIPROT INFORMATION

|                                  |                           |
|----------------------------------|---------------------------|
| NCBI GI #                        | 13128860                  |
| NCBI GeneID                      | 3065                      |
| NCBI Accession #                 | NP_004955                 |
| NCBI GenBank Nucleotide #        | NM_004964.2               |
| UniProt Accession #              | Q13547; Q92534            |
| Molecular Weight                 | 55,103 Da                 |
| NCBI Official Full Name          | histone deacetylase 1     |
| NCBI Official Synonym Full Names | histone deacetylase 1     |
| NCBI Official Symbol             | HDAC1                     |
| NCBI Official Synonym Symbols    | HD1; RPD3; GON-10; RPD3L1 |

|                            |                       |
|----------------------------|-----------------------|
| NCBI Protein Information   | histone deacetylase 1 |
| UniProt Protein Name       | Histone deacetylase 1 |
| UniProt Gene Name          | <b>HDAC1</b>          |
| UniProt Synonym Gene Names | RPD3L1; HD1           |
| UniProt Entry Name         | HDAC1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/monoclonal/hdac1-antibody-clone-2-e9-western-blot-immunofluorescence-flow-cytometry-elisa/106292>