

Anti-HDAC1 (KO Validated) Antibody

05/20

CATALOG NO.: A2121-100 (100 µl)

BACKGROUND DESCRIPTION: 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.

ALTERNATE NAMES: GON-10; HD1; RPD3; RPD3L1; HDAC1

ANTIBODY TYPE: Monoclonal

HOST/ISOTYPE: Rabbit / IgG

IMMUNOGEN: Synthetic peptide derived from human HDAC1

MOLECULAR WEIGHT: 65 kDa

PURIFICATION: Affinity purified

FORM: Liquid

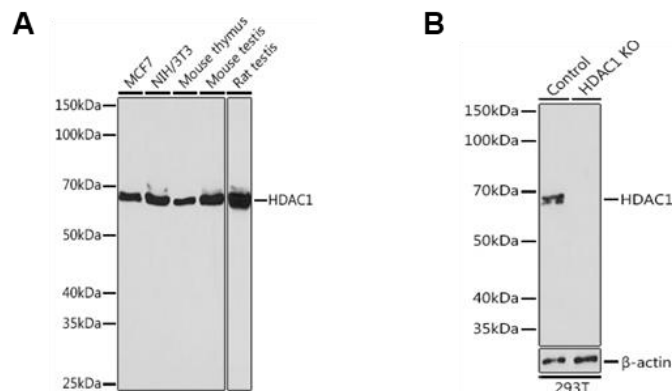
FORMULATION: In PBS with 0.02% sodium azide, 50% glycerol, pH 7.3

SPECIES REACTIVITY: Human, Mouse, Rat

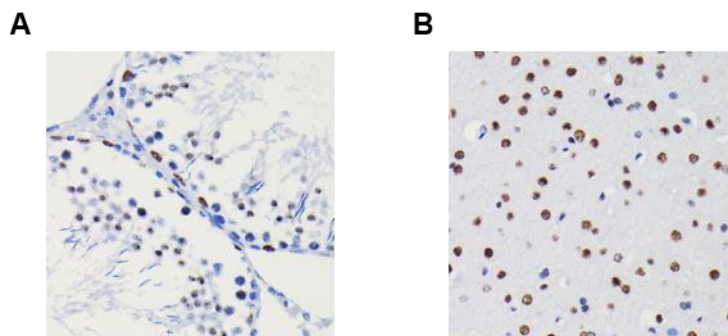
STORAGE CONDITIONS: Store at -20°C. Avoid freeze / thaw cycles

APPLICATIONS AND USAGE: WB 1:500 - 1:2000, IHC 1:50 - 1:200, IF 1:50 - 1:200

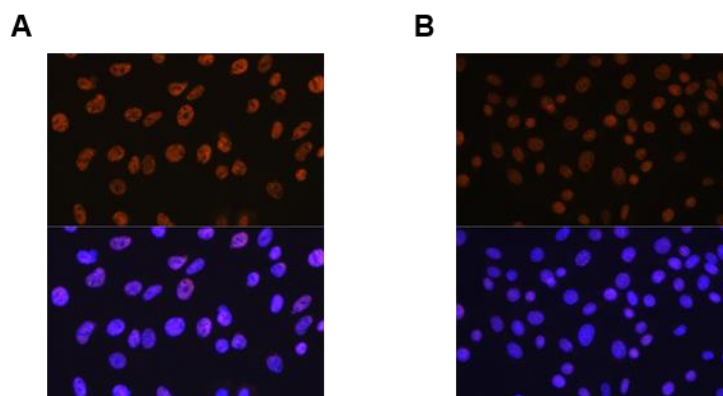
This information is only intended as a guide. The optimal dilutions must be determined by the user



Western blot analysis of various cell lines, tissue extracts (A), normal and HDAC1 KO cells (B) using Anti-HDAC1 (KO Validated) antibody at 1:1000 dilution. HRP Goat Anti-Rabbit IgG (H+L) was used as secondary antibody at 1:10000 dilution. 25 µg of lysates/proteins were loaded per lane. Blocking buffer used was 3% nonfat dry milk in TBST. Detection was performed using ECL Basic Kit. Exposure time: 30s.



Immunohistochemical analysis of paraffin-embedded rat testis (A) and mouse brain (B) using Anti-HDAC1 (KO Validated) antibody at dilution of 1:100 (Magnification: 40x).



Immunofluorescence analysis of C6 (A) and NIH/3T3 (B) cells using Anti-HDAC1 (KO Validated) antibody at dilution of 1:100. Blue: DAPI for nuclear staining.

RELATED PRODUCTS:

- Anti-NF- κ B p65 Antibody (Clone#AMC0222) (A2000)
- Anti-p53 Antibody (A1805)
- HDAC2 Antibody (3602)
- HDAC4 Antibody (3604)

FOR RESEARCH USE ONLY! Not to be used on humans.