

HDAC1 Rabbit mAb

Catalog No: #48727



Package Size: #48727-1 50ul #48727-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

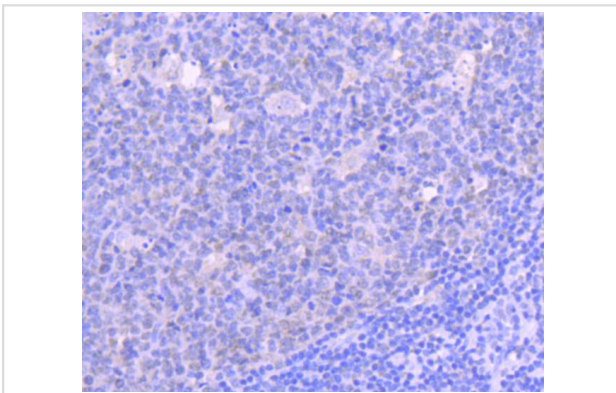
Description

Product Name	HDAC1 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SY12-04
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	DKFZp686H12203 antibody GON 10 antibody HD1 antibody HDAC 1 antibody HDAC1 antibody HDAC1_HUMAN antibody Histone deacetylase 1 antibody Reduced potassium dependency yeast homolog like 1 antibody RPD3 antibody RPD3L1 antibody
Accession No.	Swiss-Prot#:Q13547
Calculated MW	55 kDa
SDS-PAGE MW	55-60 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

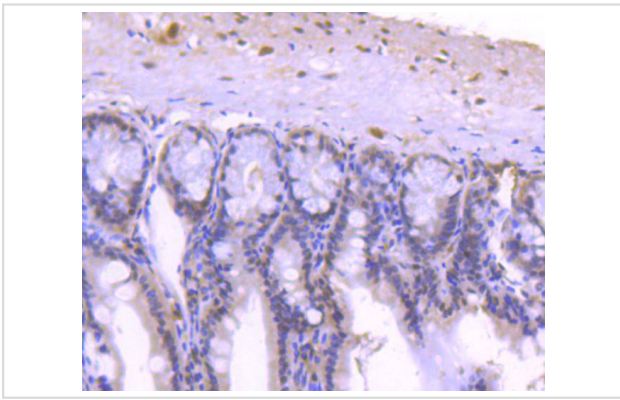
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

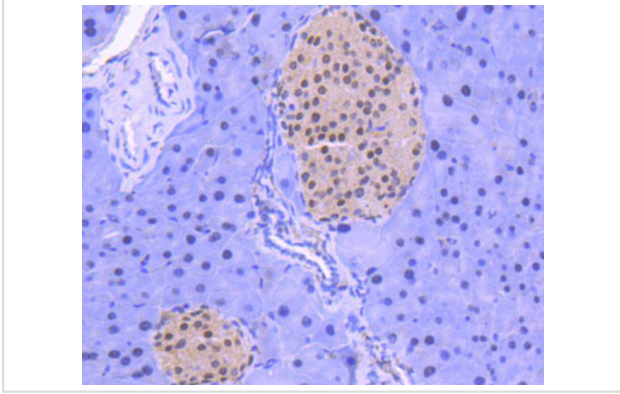
Images



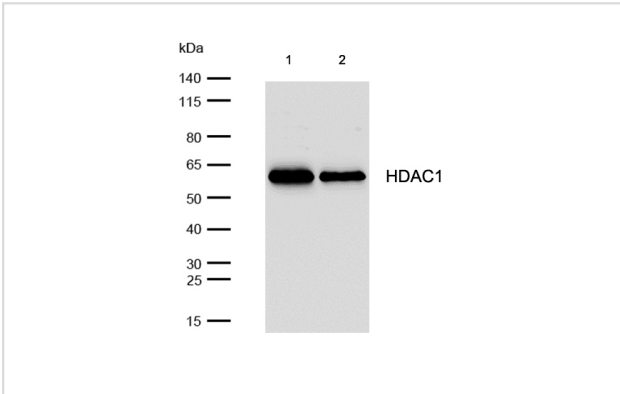
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-HDAC1 antibody. Counter stained with hematoxylin.



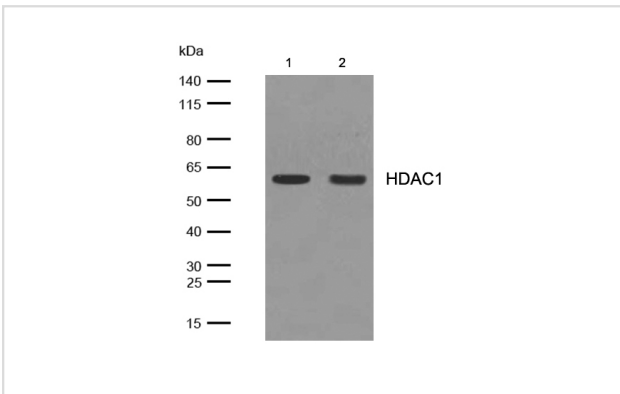
Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-HDAC1 antibody. Counter stained with hematoxylin.



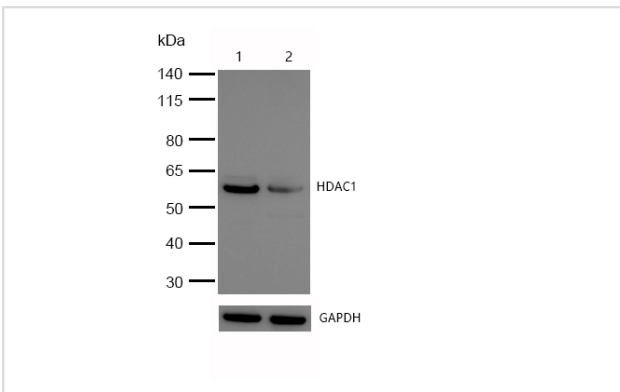
Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue using anti-HDAC1 antibody. Counter stained with hematoxylin.



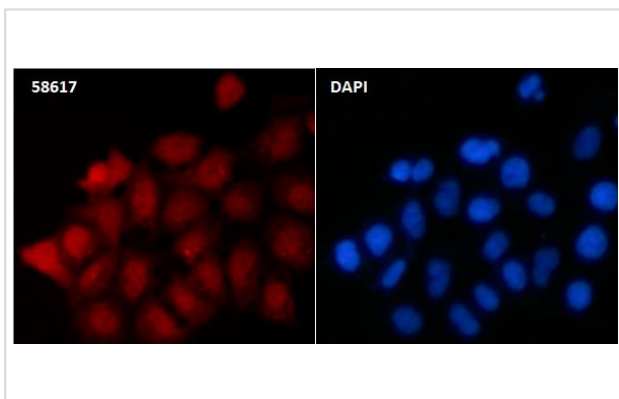
All lanes: HDAC1 Rabbit mAb at 1/1k dilution
Lane 1 : JK whole cell lysates
Lane 2 : Raji whole cell lysates
Lysates/proteins at 20 µg per lane.
Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution
Predicted band size: 55 kDa
Observed band size: 55-60 kDa
Exposure time: 3 seconds



All lanes: HDAC1 Rabbit mAb at 1/1k dilution
Lane 1 : C6 whole cell lysates
Lane 2 : 3T3 whole cell lysates
Lysates/proteins at 20 µg per lane.
Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution
Predicted band size: 55 kDa
Observed band size: 55-60 kDa
Exposure time: 5 seconds



All lanes: HDAC1 Rabbit mAb at 1/1k dilution
Lane 1 : Wild-type HeLa cell lysate
Lane 2 : HDAC1 knockdown HeLa cell lysate
Lysates/proteins at 20 µg per lane.



Immunocytochemistry/ Immunofluorescence HDAC1 antibody (48727) ICC/IF staining of HDAC1 in 293T cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 48727 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 647 goat anti rabbit, used at a dilution of 1/500.

Nuclei

were counterstained with DAPI.

Background

Acetylation of the histone tail causes chromatin to adopt an "open" conformation, allowing increased accessibility of transcription factors to DNA. The identification of histone acetyltransferases (HATs) and their large multiprotein complexes has yielded important insights into how these enzymes regulate transcription. HAT complexes interact with sequence-specific activator proteins to target specific genes. In addition to histones, HATs can acetylate nonhistone proteins, suggesting multiple roles for these enzymes. In contrast, histone deacetylation promotes a "closed" chromatin conformation and typically leads to repression of gene activity. Mammalian histone deacetylases can be divided into three classes on the basis of their similarity to various yeast deacetylases. Class I proteins (HDACs 1, 2, 3, and 8) are related to the yeast Rpd3-like proteins, those in class II (HDACs 4, 5, 6, 7, 9, and 10) are related to yeast Hda1-like proteins, and class III proteins are related to the yeast protein Sir2. Inhibitors of HDAC activity are now being explored as potential therapeutic cancer agents.

References

1. Petell CJ et al. An epigenetic switch regulates de novo DNA methylation at a subset of pluripotency gene enhancers during embryonic stem cell differentiation. *Nucleic Acids Res* 44:7605-17 (2016).
2. Yokoyama S et al. Prognostic Value of Programmed Death Ligand 1 and Programmed Death 1 Expression in Thymic Carcinoma. *Clin Cancer Res* 22:4727-34 (2016).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.