HDAC2 Rabbit mAb

Catalog No: #48802

Package Size: #48802-1 50ul #48802-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

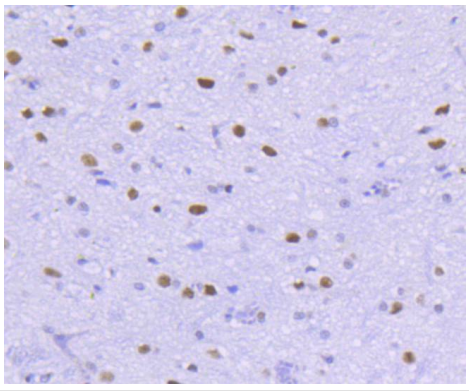
Description

Product Name	HDAC2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SY29-02
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	D10Wsu179e antibody HD 2 antibody HD2 antibody HDAC 2 antibody Hdac2 antibody HDAC2_HUMAN antibody Histone deacetylase 2 (HD2) antibody Histone deacetylase 2 antibody OTTHUMP00000017046 antibody OTTHUMP00000227077 antibody OTTHUMP00000227078 antibody RPD3 antibody transcriptional regulator homolog RPD3 antibody YAF1 antibody YY1 associated factor 1 antibody YY1 transcription factor binding protein antibody Yy1bp antibody
Accession No.	Swiss-Prot#:Q92769
Calculated MW	55 kDa
SDS-PAGE MW	55 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

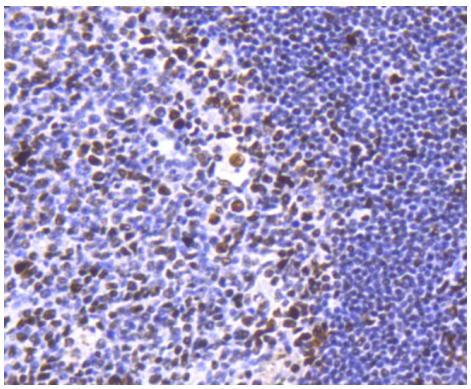
Application Details

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

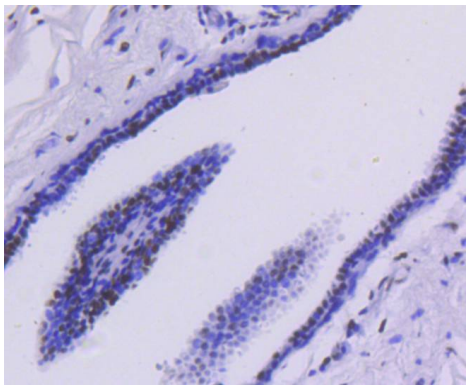
Images



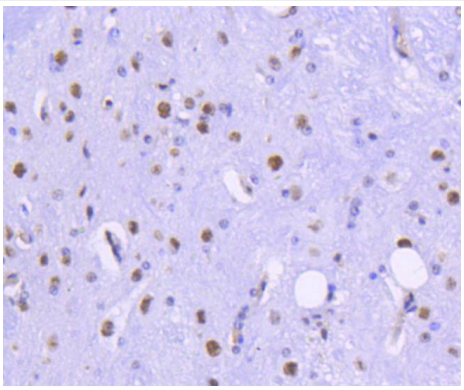
Immunohistochemical analysis of paraffin-embedded rat spinal cord tissue using anti-HDAC2 antibody. Counter stained with hematoxylin.



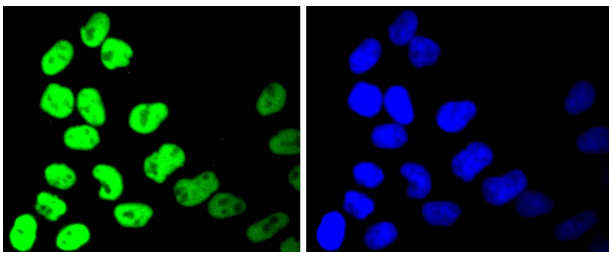
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-HDAC2 antibody. Counter stained with hematoxylin.



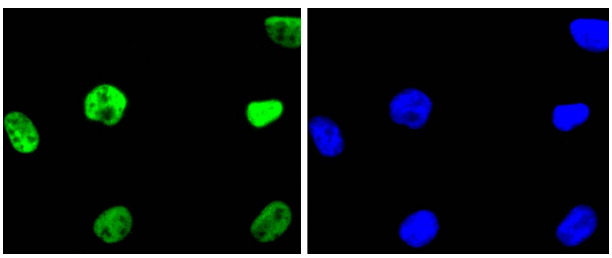
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-HDAC2 antibody. Counter stained with hematoxylin.



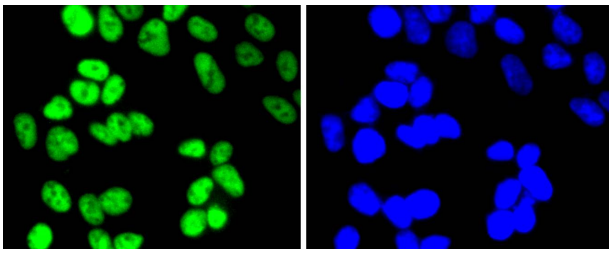
Immunohistochemical analysis of paraffin-embedded mouse spinal cord tissue using anti-HDAC2 antibody. Counter stained with hematoxylin.



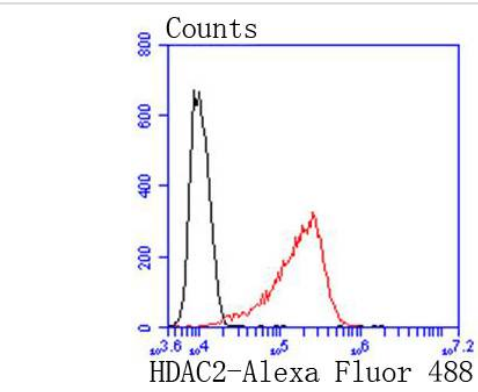
ICC staining HDAC2 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



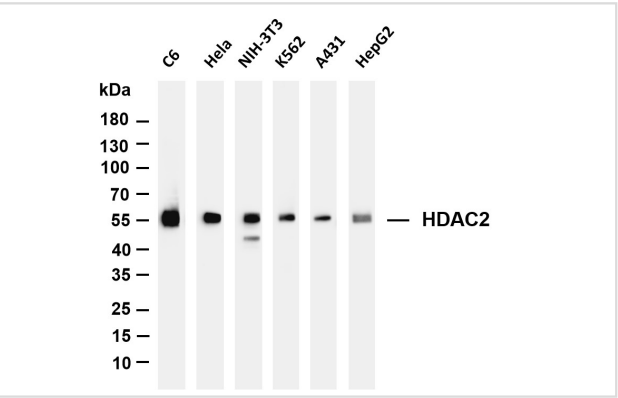
ICC staining HDAC2 in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining HDAC2 in 293 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



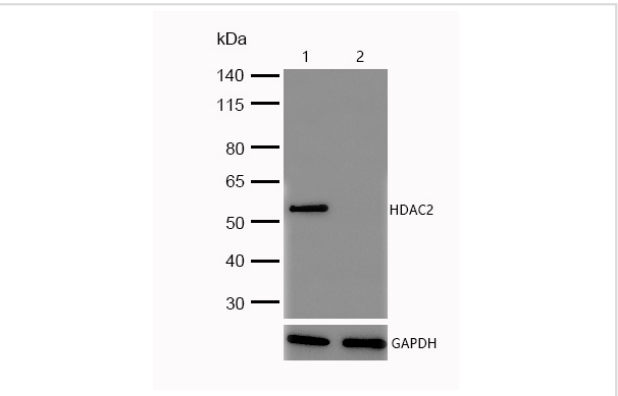
Flow cytometric analysis of Hela cells with HDAC2 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.



All lanes : HDAC2 Rabbit mAb at 1/1k dilution

Lane 1 : C6 cell lysate
Lane 2 : Hela cell lysate
Lane 3 : NIH-3T3 cell lysate
Lane 4 : K562 cell lysate
Lane 5 : A431 cell lysate
Lane 6 : HepG2 cell lysate

Lysates/proteins at 20 µg per lane.
Predicted band size: 55kDa Observed band size: 55kDa



All lanes : HDAC2 Rabbit mAb at 1/1k dilution

Lane 1 : Wild-type HAP1 cell lysate
Lane 2 : HDAC2 knockout HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

Background

In the intact cell, DNA closely associates with histones and other nuclear proteins to form chromatin. The remodeling of chromatin is believed to be a critical component of transcriptional regulation, and a major source of this remodeling is brought about by the acetylation of nucleosomal histones. Acetylation of lysine residues in the amino terminal tail domain of histone results in an allosteric change in the nucleosomal conformation and an increased accessibility to transcription factors by DNA. Conversely, the deacetylation of histones is associated with transcriptional silencing. Several mammalian proteins have been identified as nuclear histone acetylases, including GCN5, PCAF (for p300/CBP-associated factor), p300/CBP and the TFIID subunit TAF II p250. Mammalian HDAC1 (also designated HD1) and HDAC2 (also designated mammalian RPD3), both of which are related to the yeast transcriptional regulator Rpd3p, have been identified as histone deacetylases.

References

1. Mould AW et al. Blimp1/Prdm1 Functions in Opposition to Irf1 to Maintain Neonatal Tolerance during Postnatal Intestinal Maturation. PLoS Genet 11:e1005375 (2015). 2. Yahiro, K. et al. 2012. Low-density lipoprotein receptor-related protein-1 (LRP1) mediates autophagy and apoptosis caused by Helicobacter pylori VacA. J. Biol. Chem. 287: 31104-31115.

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