



Catalog: OM638935

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Histone Deacetylase 2

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☐ 100 µl

Product profile

Product name	Histone Deacetylase 2
Antibody Type	Primary Antibodies
Product description	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.
Immunogen	Recombinant protein.

Key Feature

Clonality	Polyclonal
Isotype	IgG
Host Species	Rabbit
Tested Applications	WB ,ICC ,IHC ,FC
Species Reactivity	Human Mouse Rat
Concentration	1 mg/mL.

Target Information

Alternative 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 transcriptional
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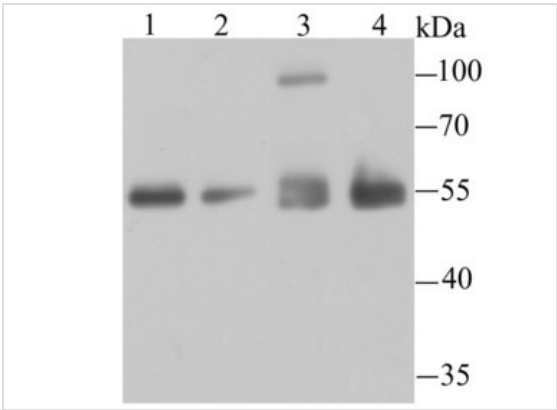
n factor binding protein antibody Yy1bp antibody

Molecular Weight(MW)	55 kDa
Cellular Localization	Nucleus. Cytoplasm.

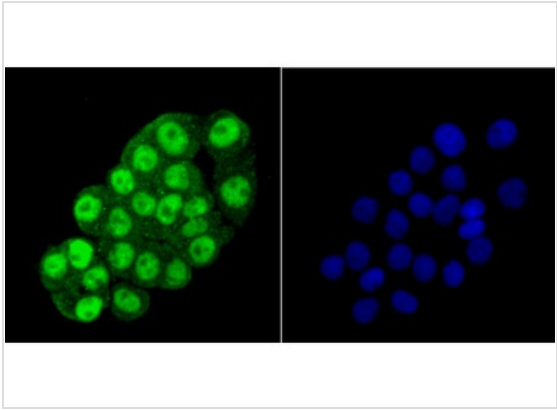
Database Links

SwissProt ID	Q92769
	P70288
	B1WBY8

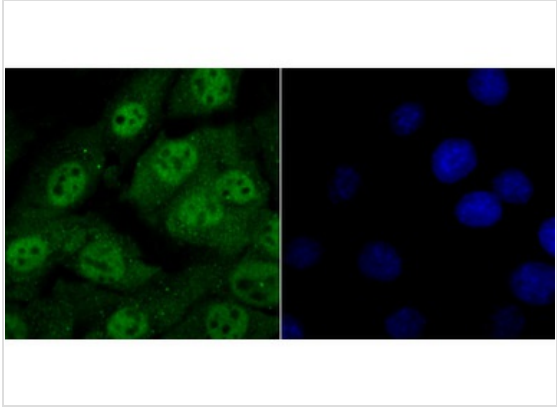
Application



Application
Fig1: Western blot analysis of HDAC2 on different cell lysates using anti-HDAC2 antibody at 1/1,000 dilution. Positive control □ Lane1: SH-SY5Y Lane2: 293T Lane3: Hela Lane4: PC-12

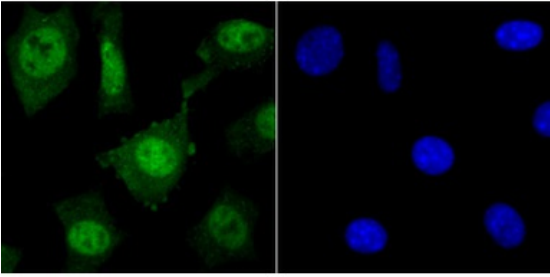


Application
Fig2: ICC staining HDAC2 in LOVO cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



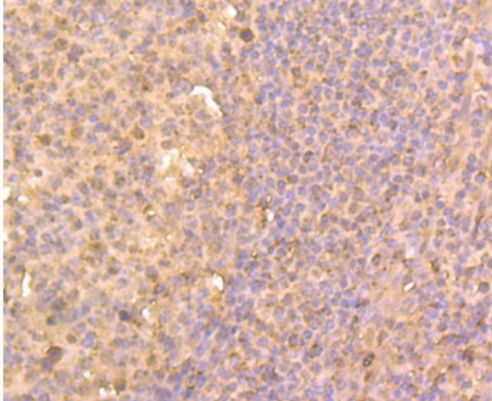
Application
Fig3: ICC staining HDAC2 in NIH-3T3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Application
Fig4: ICC staining HDAC2 in SH-SY5Y cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



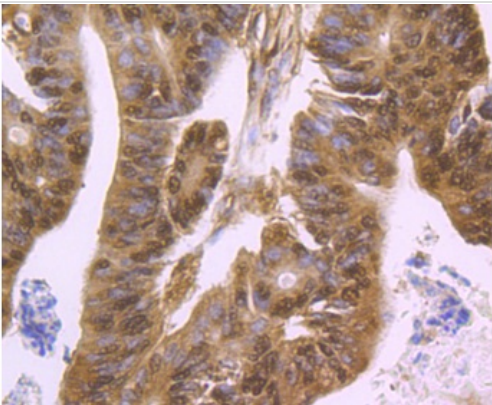
Application

Fig5: Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-HDAC2 antibody. Counter stained with hematoxylin.



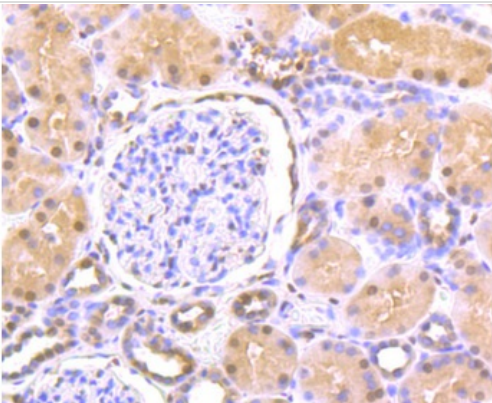
Application

Fig6: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-HDAC2 antibody. Counter stained with hematoxylin.



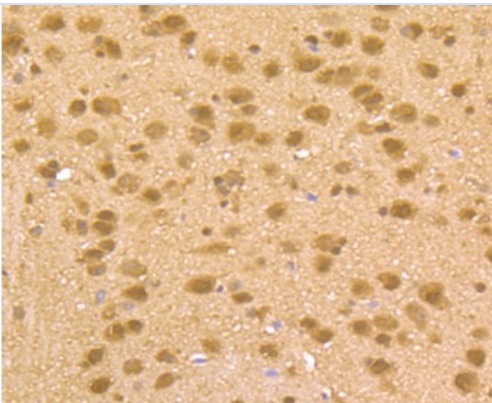
Application

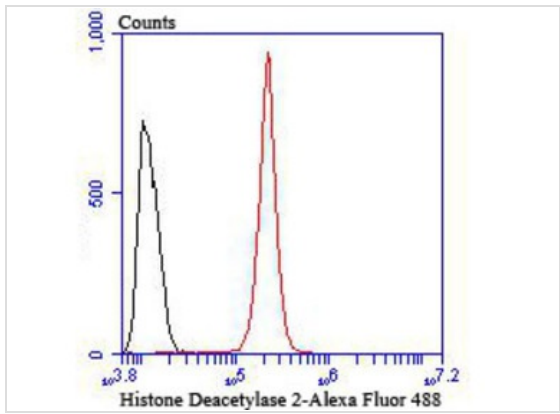
Fig7: Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-HDAC2 antibody. Counter stained with hematoxylin.



Application

Fig8: Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-HDAC2 antibody. Counter stained with hematoxylin.





Application

Fig9: Flow cytometric analysis of SH-SY5Y cells with HDAC2 antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black).

Positive Control	SH-SY5Y, 293T, HeLa, PC-12, LOVO, NIH-3T3, human tonsil tissue, human colon cancer tissue, human kidney tissue, mouse brain tissue.
Application Notes	WB: 1:500-1:1,000 ICC: 1:500-1:2,000 IHC: 1:100-1:200 FC: 1:50-1:100

Additional Information

Form	Liquid
Storage Instructions	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage Buffer	1*TBST (pH7.4), 0.5%BSA, 50%Glycerol. Preservative: 0.05% Sodium Azide.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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