Data Sheet (Cat.No.TMAC-01773)

TargetMol

Anti-HDAC2 Antibody (5E9)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 55 kDa.
Clone:	5E9
Purification:	ProA affinity purified

Applications

Verified Activity:

1. Western blot analysis of HDAC2 on different lysates using anti-HDAC2 antibody at 1/1,000 dilution. Positive control: Lane 1: 293T, Lane 2: K562.
2. Immunohistochemical analysis of paraffin-embedded rat spinal cord tissue using anti-HDAC2 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-HDAC2 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-HDAC2 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded mouse spinal cord tissue using anti-HDAC2 antibody. Counter stained with hematoxylin.
6. 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.
7. 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.
8. 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.
9. 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.

Application:	FCM,ICC/IF,IHC,IP,WB
Recommended	WB: 1:1000-2000; IHC: 1:50-200; ICC/IF: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage:	Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	Q92769
Synonyms:	HDAC 2;Histone deacetylase 2;HD2;EC 3.5.1.98

Research 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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