Data Sheet (Cat.No.TMAC-01774)

TargetMol

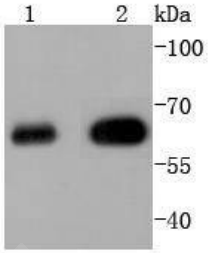
Anti-HDAC2 Antibody (5Z519)

Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 60 kDa.
Clone:	5Z519
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: K562, Lane 2: Hela.



Application:	IP,WB
Recommended	WB: 1:1000-2000

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:	Histone deacetylase 2;EC 3.5.1.98;HDAC 2;HD2

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.

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