

## Anti-HDAC4 Antibody (5T743)

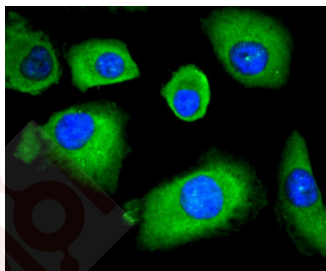
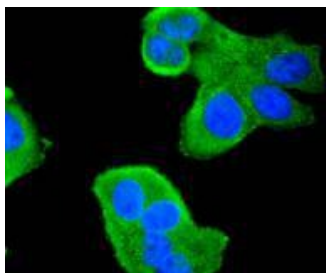
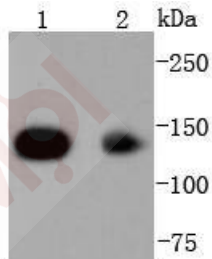
### Product Details

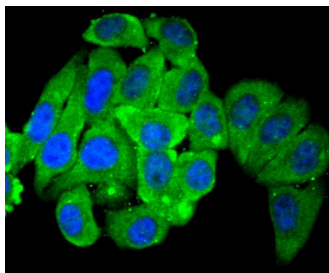
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 120 kDa.
Clone:	5T743
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of HDAC4 on different lysates using anti-HDAC4 antibody at 1/1,000 dilution. Positive control: Lane 1: Hela, Lane 2: HepG2.
2. ICC staining HDAC4 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
3. ICC staining HDAC4 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.
4. ICC staining HDAC4 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.





Application: ICC/IF,WB

Recommended WB: 1:1000-2000; ICC/IF: 1:100-500

#### 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: P56524

Synonyms: HA6116;HD4;BDMR;AHO3;histone deacetylase 4;HDACA;HDAC-A;HDAC-4

#### 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, p300/CBP, PCAF (p300/CBP associated factor), HAT1, and the TFIID subunit TAF II p250. Mammalian HDAC1 (also designated HD1), HDAC2 (also designated RPD3) and HDAC3-6, have been identified as histone deacetylases.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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