

## HDAC1 polyclonal antibody

Catalog: BS90615

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Acetylation of the histone tail causes chromatin to adopt an "open" conformation, allowing increased accessibility of transcription factors to DNA. The identification of histone acetyltransferases (HATs) and their large multi-protein complexes has yielded important insights into how these enzymes regulate transcription. HAT complexes interact with sequence-specific activator proteins to target specific genes. In addition to histones, HATs can acetylate nonhistone proteins, suggesting multiple roles for these enzymes. In contrast, histone deacetylation promotes a "closed" chromatin conformation and typically leads to repression of gene activity. Mammalian histone deacetylases can be divided into three classes on the basis of their similarity to various yeast deacetylases. Class I proteins (HDACs 1, 2, 3, and 8) are related to the yeast Rpd3-like proteins, those in class II (HDACs 4, 5, 6, 7, 9, and 10) are related to yeast Hda1-like proteins, and class III proteins are related to the yeast protein Sir2. Inhibitors of HDAC activity are now being explored as potential therapeutic cancer agents.

### Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### Molecular Weight:

65 kDa

### Swiss-Prot:

Q13547(Human) O09106(Mouse) Q4QQW4(Rat)

### Purification&Purity:

ProA affinity purified

### Applications:

WB:1:1,000-1:2,000

ICC:1:50-1:200

IHC:1:50-1:200

FC:1:50-1:100

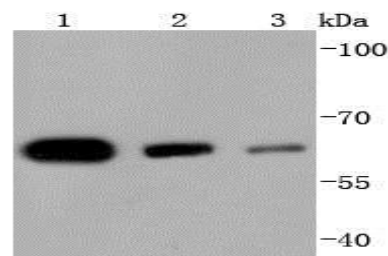
### Storage&Stability:

Store at +4 °C after thawing. Aliquot store at -20 °C or -80 °C. Avoid repeated freeze / thaw cycles.

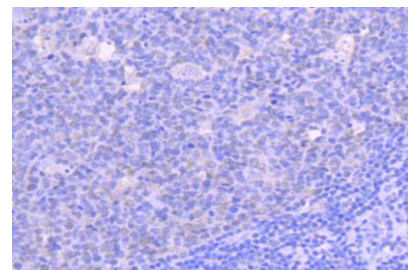
### Specificity:

HDAC1 polyclonal antibody detects endogenous levels of HDAC1 protein.

### DATA:



Western blot analysis of HDAC1 on different lysates using anti-HDAC1 antibody at 1/1,000 dilution. Positive control: Lane 1: HeLa Lane 2: Jurkat Lane 3: K562



Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-HDAC1 antibody. Counter stained with hematoxylin.

### Note:

For research use only, not for use in diagnostic procedure.

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