

Cat. No: ABP-0280
Conjugate: Unconjugated
Size: 100 ug
Clone: Poly
Concentration: 1mg/ml
Host: Rb
Isotype: IgG

Immunogen: A phospho specific peptide corresponding to residues surrounding S246/259/220 of human HDAC4/5/9

Reactivity: Hu

Applications: WB 1:1000 IHC 1:50- 1:100

Molecular Weight: 140/142kDa

Purification: Affinity purification

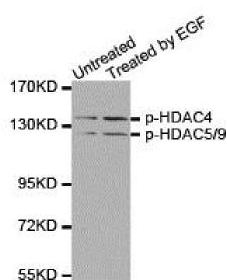
Background:

Histone Deacetylases (HDACs) are a group of enzymes closely related to sirtuins. They catalyze the removal of acetyl groups from lysine residues in histones and non- histone proteins, resulting in transcriptional repression. In general, they do not act autonomously but as components of large multiprotein complexes, such as pRb-E2F and mSin3A, that mediate important transcription regulatory pathways. There are three classes of HDACs; classes 1, 2 and 4, which are closely related Zn²⁺-dependent enzymes. HDACs are ubiquitously expressed and they can exist in the nucleus or cytosol. Their subcellular localization is effected by protein-protein interactions (for example HDAC-14.3.3 complexes are retained in the cytosol) and by the class to which they belong (class 1 HDACs are predominantly nuclear whilst class 2 HDACs shuttle between the nucleus and cytosol). HDACs have a role in cell growth arrest, differentiation and death and this has led to substantial interest in HDAC inhibitors as possible antineoplastic agents.

Form: liquid

Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Storage: Store at -20°C (regular) and -80°C (long term). Avoid freeze / thaw cycles.



Western blot analysis of extracts from 293 cells untreated or treated with EGF using Phospho-HDAC4/5/9-S246/259/220 Antibody.

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