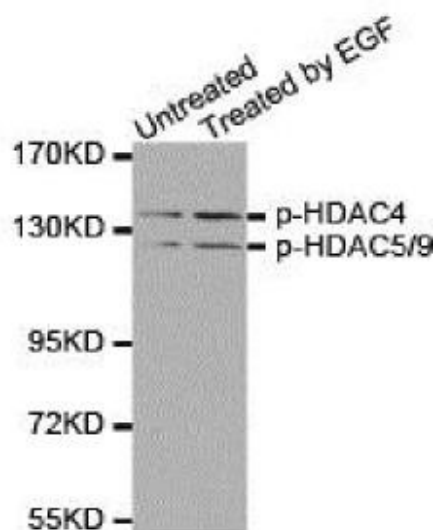


Product name:	Phospho-HDAC4-S246/HDAC5-S259/HDAC9-S220
Cat number:	ABP-0280
Conjugate:	Unconjugated
Size:	100 ug
Clone:	Poly
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Immunogen:	A phospho specific peptide corresponding to residues surrounding S246/259/220 of human HDAC4/5/9
Reactivity:	Hu
Applications:	WB 1:1000 IHC 1:50- 1:100
Molecular Weight:	140/142kDa
Purification:	Affinity purification
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.
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.



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