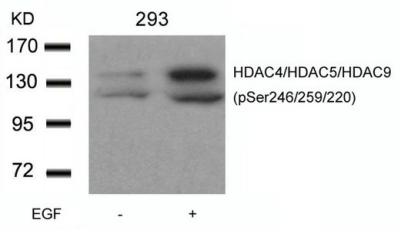
Phospho-HDAC4/HDAC5/HDAC9 (Ser246/259/220) Antibody

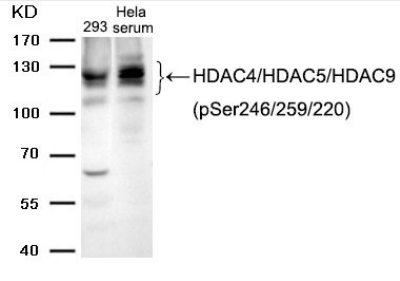
Product Code	CSB-PA442959
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P56524/Q9UQL6/Q9UKV0
Immunogen	Peptide sequence around phosphorylation site of serine 246/259/220 (T-A-S(p)-EP) derived from Human HDAC4/HDAC5/HDAC9.
Raised In	Rabbit
Species Reactivity	Human
Specificity	The antibody detects endogenous level of HDAC4/HDAC5/HDAC9 only when phosphorylated at serine 246/259/220.
Tested Applications	ELISA,WB,IHC;WB:1:500-1:1000,IHC:1:50-1:100
Relevance	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. Cress, W.D. and Seto, E. (2000) J Cell Physiol 184, 1-16. Vigushin, D.M. and Coombes, R.C. (2004) Curr. Cancer Drug Targets 4, 205-218. Marmorstein, R. (2001) Cell Mol Life Sci 58, 693-703. Thiagalingam, S. et al. (2003) Ann. N.Y. Acad. Sci. 983, 84-100.
Form	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy usi
Clonality	Polyclonal

Alias	HD4/HD5/HD9
Product Type	Polyclonal Antibody
Target Names	HDAC4/HDAC5/HDAC9

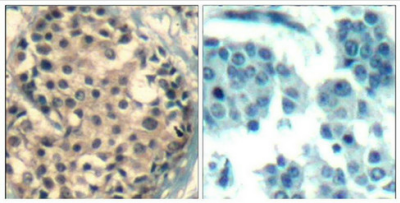
Image



Western blot analysis of extracts from 293 cells untreated or treated with EGF using HDAC4/HDAC5/HDAC9(phospho-Ser246/259/220) Antibody.



Western blot analysis of extracts from 293 cells and Hela cells treated with serum using HDAC4/HDAC5/HDAC9 (phospho-Ser246/259/220) Antibody.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using HDAC4/HDAC5/HDAC9(Phospho-Ser246/259/220) Antibody(left) or the same antibody preincubated with blocking peptide(right).

Product Modify	Phospho-Ser246/259/220