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35-1183: Polyclonal Antibody to HDAC5 (Phospho-Ser498)

Clonality :	Polyclonal
Application :	WB,IHC
Reactivity :	Human,Mouse,Rat
Gene :	HDAC5
Gene ID :	10014
Uniprot ID :	Q9UQL6
Format :	Purified
Alternative Name :	HD5
Isotype :	Rabbit IgG
Immunogen Information :	Peptide sequence around phosphorylation site of serine 498 (T-Q-S(p)-S-P) derived from Human HDAC5/7.

Description

Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. The protein encoded by HDAC5 belongs to the class II histone deacetylase/acuc/apha family. It possesses histone deacetylase activity and represses transcription when tethered to a promoter. It coimmunoprecipitates only with HDAC3 family member and might form multicomplex proteins. It also interacts with myocyte enhancer factor-2 (MEF2) proteins, resulting in repression of MEF2-dependent genes. This gene is thought to be associated with colon cancer. Two transcript variants encoding different isoforms have been found for this gene. Doppler H, et al. (2005) J Biol Chem. 280(15):15013-15019. McKinsey TA, et al. (2000) Nature. 408(6808): 106-111.

Product Info

Amount :	50 µl / 100 µl
Content :	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.
Storage condition :	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

Application Note

Predicted MW: 124kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100

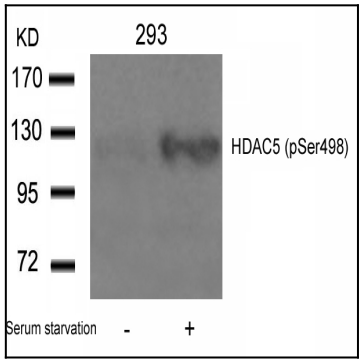

Figure 1: Western blot analysis of extracts from 293 cells untreated or treated with serum starvation using HDAC5(Phospho-Ser498) Antibody 35-1183 .

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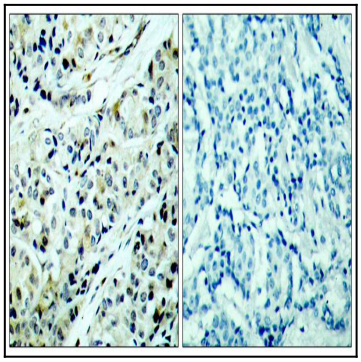

Figure 2: Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using HDAC5(Phospho-Ser498) Antibody 35-1183 (left) or the same antibody preincubated with blocking peptide(right).