

HDAC5(Phospho-Ser498) Antibody

Catalog No: #11193



Package Size: #11193-1 50ul #11193-2 100ul #11193-4 25ul

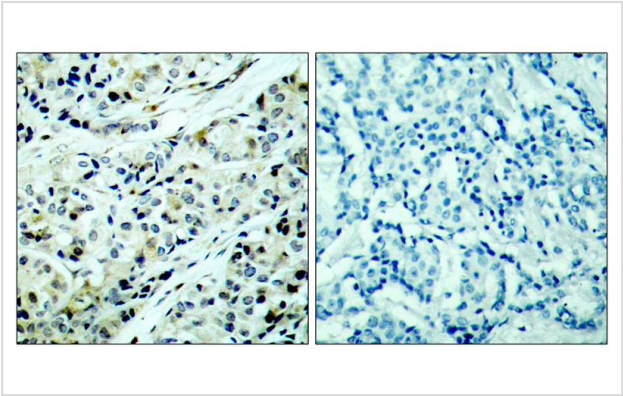
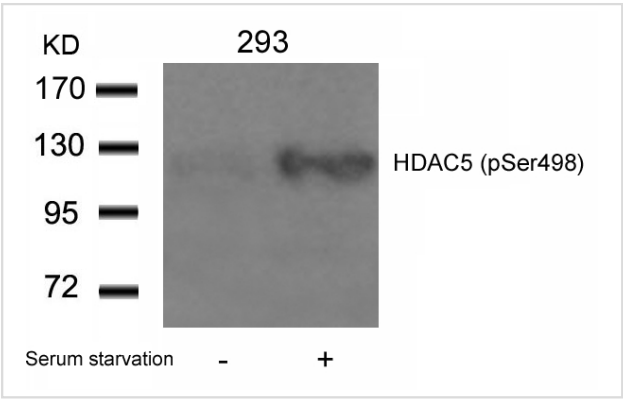
Overview

Product Name	HDAC5(Phospho-Ser498) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Applications	WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide-KLH
Target Name	HDAC5
Modification	Phospho-Ser498
Alternative Names	HD5

Application Details

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

Images



Descriptions

Immunogen	Peptide sequence around phosphorylation site of serine 498 (T-Q-S(p)-S-P) derived from Human HDAC5/7.
Specificity	The antibody detects endogenous level of HDAC5 only when phosphorylated at serine498.
Purification	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 chromatography using non-phosphopeptide.
Formulation	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	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.
Accession NO.	Swiss-Prot: Q9UQL6NCBI Protein: NP_001015053.1

Related Information

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.

Published Papers

Pang J, Yan C, Natarajan K et al., GIT1 mediates HDAC5 activation by angiotensin II in vascular smooth muscle cells., Arteriosclerosis, Thrombosis, and Vascular Biology, 28(5):892-898(2008)

[PMID:18292392](#)

Sheng Xia, Xiaogang Li, Teri Johnson et al., Polycystin-dependent fluid flow sensing targets histone deacetylase 5 to prevent the development of renal cysts., Development, 137, 1075-1084(2010)

[PMID:20181743](#)

J Bossuyt, K Helmstadter, X Wu et al., Ca2+/calmodulin-dependent protein kinase IIdelta and protein kinase D overexpression reinforce the histone deacetylase 5 redistribution in heart failure. , Circulation Research, 102(6):695-702(2008)

[PMID:18218981](#)

Weiye Wang, Chang Hoon Ha, Bong Sook Jhun et al., Fluid shear stress stimulates phosphorylation-dependent nuclear export of HDAC5 and mediates expression of KLF2 and eNOS., Blood, 115(14):2971-2979.(2010)

[PMID:20042720](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.