

HDAC5(Phospho-Ser498) Antibody

Catalog No: #11193

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

Description

Product Name	HDAC5(Phospho-Ser498) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB;IHC;IF
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous level of HDAC5 only when phosphorylated at serine498.
Immunogen Type	Peptide-KLH
Immunogen Description	The antiserum was produced against synthesized peptide derived from human HDAC5 around the phosphorylation site of Ser498.
Conjugates	Unconjugated
Target Name	HDAC5
Modification	Phospho
Other Names	HD5
Accession No.	Swiss-Prot: Q9UQL6NCBI Protein: NP_001015053.1
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

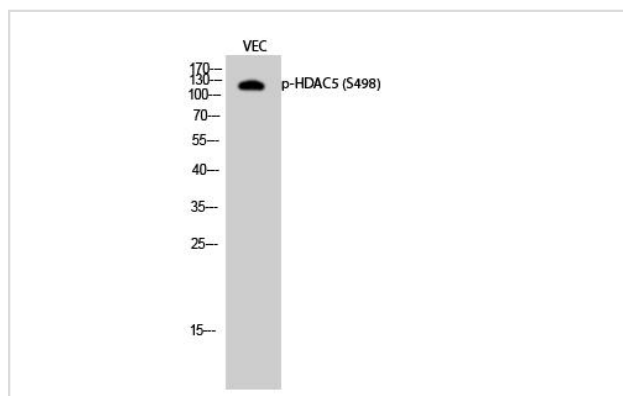
Application Details

WB 1:500-1:2000;

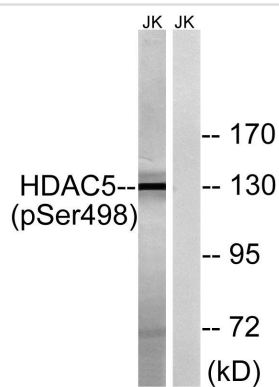
IHC 1:100-1:300;

IF 1:200-1:1000

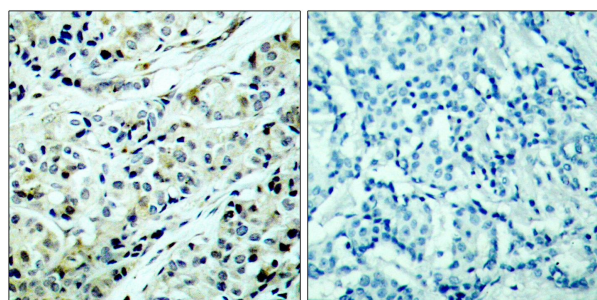
Images



Western Blot analysis of VEC cells using Phospho-HDAC5 (S498) Polyclonal Antibody diluted at 1:500



Western blot analysis of lysates from Jurkat cells, using HDAC5 (Phospho-Ser498) Antibody. The lane on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using HDAC5 (Phospho-Ser498) Antibody. The picture on the right is blocked with the phospho peptide.

Background

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 this gene belongs to the class II histone deacetylase/acuc/alpha 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. [provided by RefSeq, Jul 2008],

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 II δ 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](#)

et al., Dopamine receptor antagonists as potential therapeutic agents for ADPKD. In *PLoS One* on 2019 May 6 by Paul P, Ramachandran S et al..

PMID:31059522, , (2019)

[PMID:31059522](#)

el at., Fluid shear stress stimulates phosphorylation-dependent nuclear export of HDAC5 and mediates expression of KLF2 and eNOS. In Blood on 2010 Apr 8 by Weiye Wang, Chang Hoon Ha, et al.. PMID:20042720, , (2010)

[PMID:20042720](#)

el at., Polycystin-dependent fluid flow sensing targets histone deacetylase 5 to prevent the development of renal cysts. In Development on 2010 Apr by Sheng Xia, Xiaogang Li, et al.. PMID: 20181743

, , (2010)

[PMID:20181743](#)

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