

Phospho HDAC5 (Ser498) Antibody

rev 12/19

CATALOG NO.: A1955-100 (100 µl)

BACKGROUND 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 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.

ALTERNATE NAMES: KIAA0600; Histone deacetylase 5; HD5; Antigen NY-CO-9

ANTIBODY TYPE: Polyclonal

HOST/ISOTYPE: Rabbit / IgG

IMMUNOGEN: KLH-conjugated synthetic peptide targeting a sequence within the center region of human HDAC5

MOLECULAR WEIGHT: 130 kDa

PURIFICATION: Affinity purified

FORM: Liquid

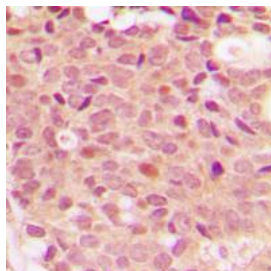
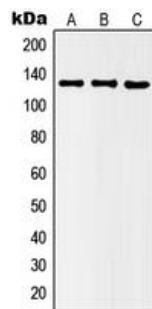
FORMULATION: In 0.42% Potassium phosphate; 0.87% NaCl; pH 7.3; 30% glycerol; and 0.01% sodium azide

SPECIES REACTIVITY: Human, Mouse, Rat, Porcine, Bovine

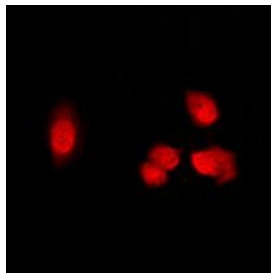
STORAGE CONDITIONS: Store at -20°C. Avoid freeze / thaw cycles

APPLICATIONS AND USAGE: WB 1:500 - 1:1000, IHC 1:100 - 1:200, IF 1:100 - 1:500

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user



Immunohistochemical analysis of phospho HDAC5 (Ser498) staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0), then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with hematoxylin and mounted with DPX.



Immunofluorescent analysis of phospho HDAC5 (Ser498) staining in RAW264.7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 C in a humidified chamber. Cells were washed with PBST and incubated with a DyLight 594-conjugated secondary antibody (red) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

RELATED PRODUCTS:

Anti-HDAC6 Monoclonal Antibody (ZnF domain-specific) (A1489)
HDAC5 Antibody (3605)
HDAC9 Antibody (3609)
HDAC4 Antibody (3604)

FOR RESEARCH USE ONLY! Not to be used on humans.