

HDAC6 (phospho Ser22) Polyclonal Antibody

Catalog No :	YP0922
Reactivity :	Human;Mouse
Applications :	WB;IHC;IF;ELISA
Target :	HDAC6
Fields :	>>Neutrophil extracellular trap formation;>>Amyotrophic lateral sclerosis;>>Alcoholism;>>Viral carcinogenesis
Gene Name :	HDAC6
Protein Name :	Histone deacetylase 6
Human Gene Id :	10013
Human Swiss Prot No :	Q9UBN7
Mouse Gene Id :	15185
Mouse Swiss Prot No :	Q9Z2V5
Immunogen :	The antiserum was produced against synthesized peptide derived from human HDAC6 around the phosphorylation site of Ser22. AA range:7-56
Specificity :	Phospho-HDAC6 (S22) Polyclonal Antibody detects endogenous levels of HDAC6 protein only when phosphorylated at S22.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Concentration : 1 mg/ml**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)**Observed Band :** 131kD**Cell Pathway :** Protein_Acetylation**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 class II of the histone deacetylase/acuc/apha family. It contains an internal duplication of two catalytic domains which appear to function independently of each other. This protein possesses histone deacetylase activity and represses transcription. [provided by RefSeq, Jul 2008],

Function :

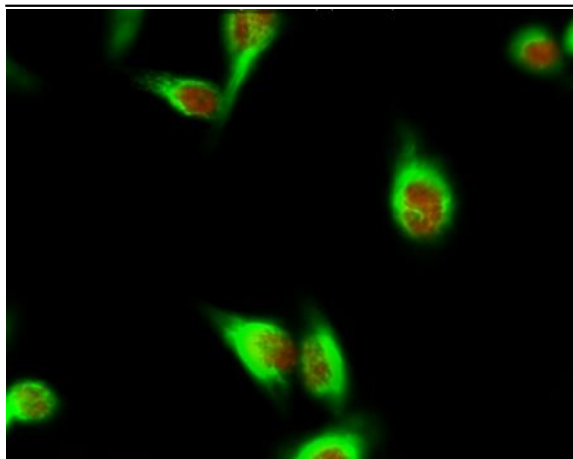
catalytic activity:Hydrolysis of an N(6)-acetyl-lysine residue of a histone to yield a deacetylated histone.,function:Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes (By similarity). Plays a central role in microtubule-dependent cell motility via deacetylation of tubulin.,PTM:Sumoylated in vitro.,PTM:Ubiquitinated. Its polyubiquitination however does not lead to its degradation.,similarity:Belongs to the histone deacetylase family. Type 2 subfamily.,similarity:Contains 1 UBP-type zinc finger.,subcellular location:It is mainly cytoplasmic, where it is associated with microtubules

Subcellular Location :

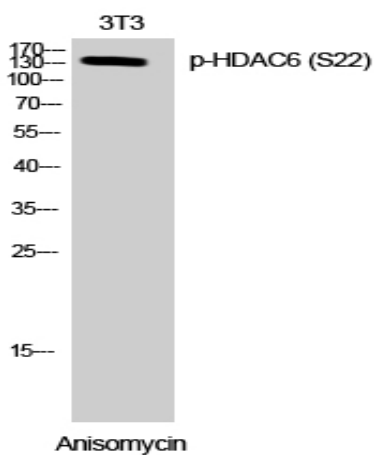
Cytoplasm . Cytoplasm, cytoskeleton . Nucleus . Perikaryon . Cell projection, dendrite . Cell projection, axon . It is mainly cytoplasmic, where it is associated with microtubules. .

Expression : Brain,Epithelium,Kidney,Muscle,Ovary,Placenta,

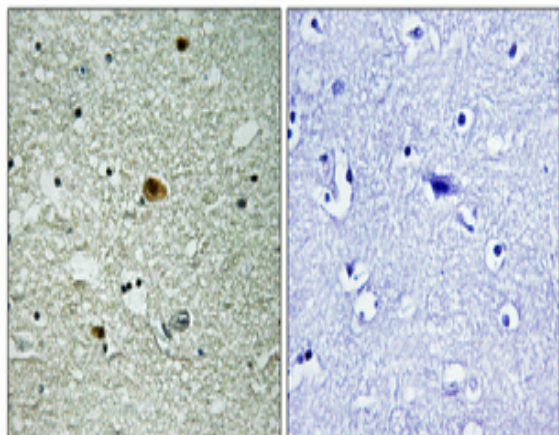
Products Images



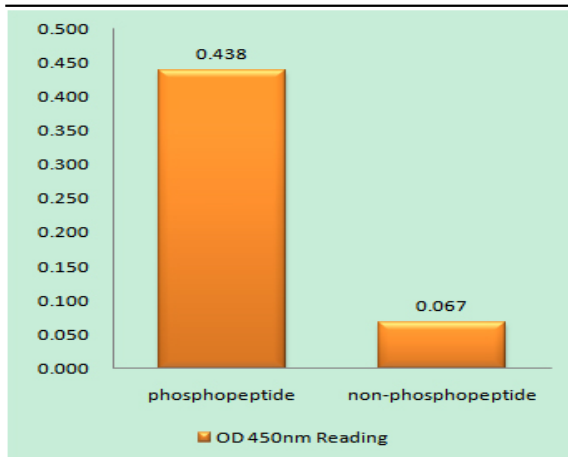
Immunofluorescence analysis of HeLa cell. 1, HDAC6 (phospho Ser22) Polyclonal Antibody (red) was diluted at 1:200 (4° overnight). Galectin-3 Monoclonal Antibody (6G2) (green) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog: RS3611 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog: RS3208 was diluted at 1:1000 (room temperature, 50min).



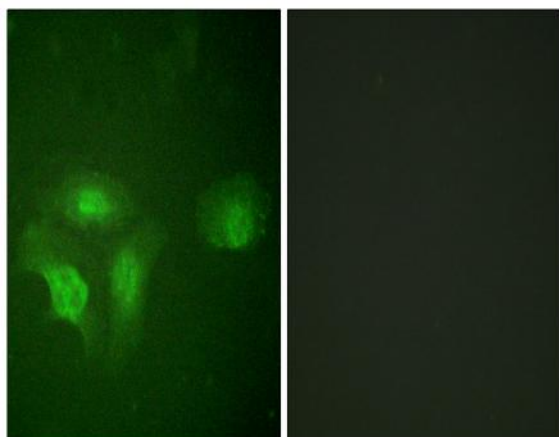
Western Blot analysis of 3T3 cells using Phospho-HDAC6 (S22) Polyclonal Antibody diluted at 1:500



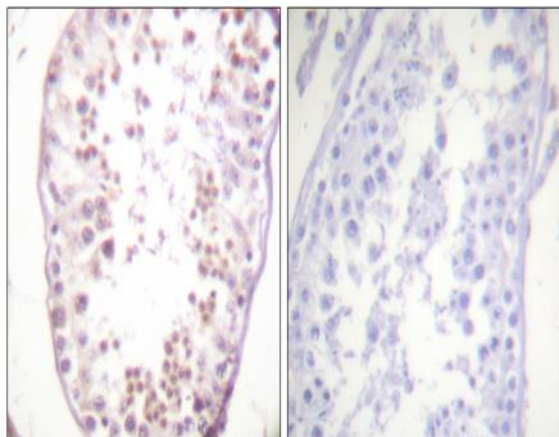
Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4° overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained from antibody was pre-absorbed by immunogen peptide.



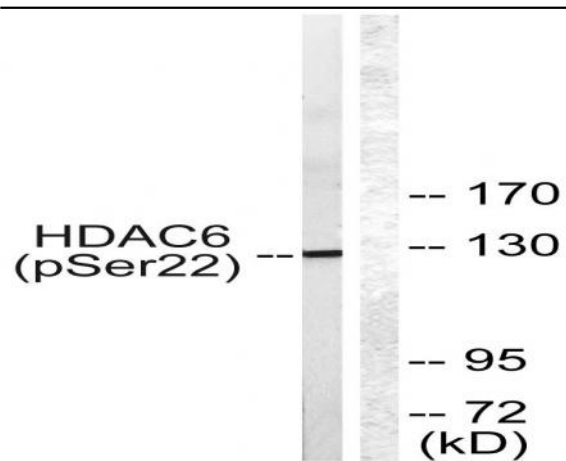
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using HDAC6 (Phospho-Ser22) Antibody



Immunofluorescence analysis of HepG2 cells, using HDAC6 (Phospho-Ser22) Antibody. The picture on the right is blocked with the phospho peptide.



Immunohistochemistry analysis of paraffin-embedded human testis, using HDAC6 (Phospho-Ser22) Antibody. The picture on the right is blocked with the phospho peptide.



Western blot analysis of lysates from NIH/3T3 cells treated with Anisomycin 25ug/ml 30', using HDAC6 (Phospho-Ser22) Antibody. The lane on the right is blocked with the phospho peptide.