

Rabbit anti-Human, Mouse HDAC6 Polyclonal Antibody | anti-HDAC6 antibody

Phospho-HDAC6 (Ser22) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321773	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

HDAC6; Polyclonal Antibody; Phospho-HDAC6 (Ser22) Antibody; CPBHM; FLJ16239; HD 6; HD6; HDAC 6; HDAC6_HUMAN; Histone deacetylase 6 (HD6); Histone deacetylase 6; JM 21; JM21; KIAA0901; OTTHUMP00000032398; OTTHUMP00000197663; PPP1R90; Protein phosphatase 1 regulatory subunit 90; anti-HDAC6 antibody

PRODUCT SPECIFICATIONS

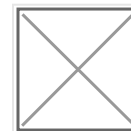
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-HDAC6 (Ser22) antibody detects endogenous levels of HDAC6 only when phosphorylated at Serine 22
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1215
Applicable Applications for anti-HDAC6 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HDAC6 around the phosphorylation site of Serine 22
Subcellular Location	Nucleus. Cytoplasm. It is mainly cytoplasmic, where it is associated with microtubules.
Conjugation	Unconjugated
Epitope	Phospho Ser22
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321773 staining HepG2 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



IHC (Immunohistochemistry)

AAA321773 at 1/100 staining human testis tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of HDAC6 phosphorylation expression in NIH-3T3 whole cell lysates. The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)

Western blot analysis of Phospho-HDAC6 (Ser22) Antibody expression in NIH-3T3 cells lysates. The lane on the right is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA321773 staining NIH-3T3 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-HDAC6 antibody

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.

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. Involved in the MTA1-mediated epigenetic regulation of ESR1 expression in breast cancer.

Subunit Structure: Interacts with ZMYND15 (By similarity). Interacts with SIRT2 (via both phosphorylated, unphosphorylated, active or inactive forms); the interaction is necessary for the complex to interact with alpha-tubulin. Under proteasome impairment conditions, interacts with UBD via its histone deacetylase 1 and UBP-type zinc-finger regions. Interacts with BBIP10, CBFA2T3, CYLD, DDIT3/CHOP, F-actin and HDAC11. Interacts with RIPOR2; this interaction occurs during early myogenic differentiation and prevents HDAC6 to deacetylate tubulin (PubMed:24687993). Interacts with DYSF; this interaction occurs during early myogenic differentiation (PubMed:24687993).

Post-translational Modifications: Phosphorylated by AURKA. Ubiquitinated. Its polyubiquitination however does not lead to its degradation. Sumoylated in vitro.

Similarity: Belongs to the histone deacetylase family. HD type 2 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	1007392134
NCBI GeneID	10013
NCBI Accession #	NP_001308155.1
NCBI GenBank Nucleotide #	NM_001321226.1
UniProt Accession #	Q9UBN7; O94975; Q6NT75; Q7L3E5; Q96CY0
Molecular Weight	Observed: 131 kDa Predicted: 132 kDa
NCBI Official Full Name	histone deacetylase 6 isoform b
NCBI Official Synonym Full Names	histone deacetylase 6
NCBI Official Symbol	HDAC6
NCBI Official Synonym Symbols	HD6; JM21; CPBHM; PPP1R90

NCBI Protein Information	histone deacetylase 6
UniProt Protein Name	Histone deacetylase 6
UniProt Gene Name	HDAC6
UniProt Synonym Gene Names	KIAA0901; HD6

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/hdac6-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321773>