

Anti-HDAC6/Histone Deacetylase 6 Rabbit Monoclonal Antibody
Catalog # ABO13696

Specification

Anti-HDAC6/Histone Deacetylase 6 Rabbit Monoclonal Antibody - Product Information

Application	WB, IHC, IF, ICC, IP
Primary Accession	Q9UBN7
Host	Rabbit
Isotype	Rabbit IgG
Reactivity	Human
Clonality	Monoclonal
Format	Liquid

Description

Anti-HDAC6/Histone Deacetylase 6 Rabbit Monoclonal Antibody . Tested in WB, IHC, ICC/IF, IP applications. This antibody reacts with Human.

Anti-HDAC6/Histone Deacetylase 6 Rabbit Monoclonal Antibody - Additional Information

Gene ID 10013

Other Names

Histone deacetylase 6, HD6, 3.5.1.98, Protein deacetylase HDAC6, 3.5.1.-, Tubulin-lysine deacetylase HDAC6, 3.5.1.-, HDAC6 {ECO:0000303|PubMed:10220385, ECO:0000312|HGNC:HGNC:14064}

Calculated MW

131419 MW KDa

Application Details

WB 1:5000-1:20000
IHC 1:50-1:200
ICC/IF 1:100-1:500
IP 1:50

Subcellular Localization

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

Contents

Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol, 0.4-0.5mg/ml BSA.

Immunogen

A synthesized peptide derived from human HDAC6

Purification

Affinity-chromatography

Storage

Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.

Anti-HDAC6/Histone Deacetylase 6 Rabbit Monoclonal Antibody - Protein Information

Name HDAC6 {ECO:0000303|PubMed:10220385, ECO:0000312|HGNC:HGNC:14064}

Function

Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4) (PubMed: 10220385). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events (PubMed: 10220385). Histone deacetylases act via the formation of large multiprotein complexes (PubMed: 10220385). In addition to histones, deacetylates other proteins, such as CTTN, tubulin and SQSTM1 (PubMed: 12024216, PubMed: 20308065, PubMed: 26246421, PubMed: 30538141, PubMed: 31857589). Plays a central role in microtubule-dependent cell motility by mediating deacetylation of tubulin (PubMed: 12024216, PubMed: 20308065, PubMed: 26246421). Required for cilia disassembly; via deacetylation of alpha-tubulin (PubMed: 17604723, PubMed: 26246421). Promotes deacetylation of CTTN, leading to actin polymerization, promotion of autophagosome-lysosome fusion and completion of autophagy (PubMed: 30538141). Involved in the MTA1-mediated epigenetic regulation of ESR1 expression in breast cancer (PubMed: 24413532). Promotes odontoblast differentiation following IPO7-mediated nuclear import and subsequent repression of RUNX2 expression (By similarity). In addition to its protein deacetylase activity, plays a key role in the degradation of misfolded proteins: when misfolded proteins are too abundant to be degraded by the chaperone refolding system and the ubiquitin-proteasome, mediates the transport of misfolded proteins to a cytoplasmic juxtannuclear structure called aggresome (PubMed: 17846173). Probably acts as an adapter that recognizes polyubiquitinated misfolded proteins and target them to the aggresome, facilitating their clearance by autophagy (PubMed: 17846173).

Cellular Location

Cytoplasm. Cytoplasm, cytoskeleton. Nucleus {ECO:0000250|UniProtKB:Q9Z2V5}. Perikaryon {ECO:0000250|UniProtKB:Q9Z2V5}. Cell projection, dendrite {ECO:0000250|UniProtKB:Q9Z2V5}. Cell projection, axon {ECO:0000250|UniProtKB:Q9Z2V5}. Cell projection, cilium. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Cytoplasm, cytoskeleton, cilium basal body. Note=It is mainly cytoplasmic, where it is associated with microtubules

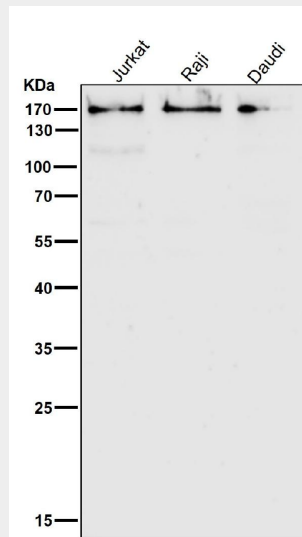
Anti-HDAC6/Histone Deacetylase 6 Rabbit Monoclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

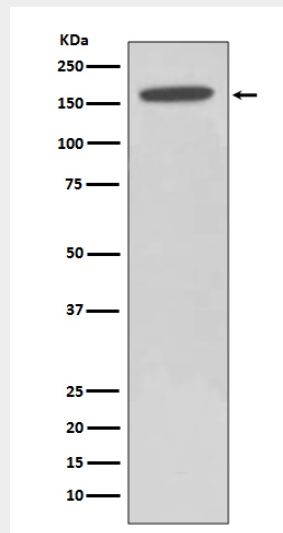
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-HDAC6/Histone Deacetylase 6 Rabbit Monoclonal Antibody - Images



All lanes use the Antibody at 1:1W dilution for 1 hour at room temperature.



Western blot analysis of HDAC6 expression in HeLa cell lysate.