

ARG56561
anti-HDAC6 antibodyPackage: 50 µl
Store at: -20°C**Summary**

Product Description	Rabbit Polyclonal antibody recognizes HDAC6
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IHC-P, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	HDAC6
Species	Human
Immunogen	Recombinant protein of Human HDAC6.
Conjugation	Un-conjugated
Alternate Names	HD6; EC 3.5.1.98; PPP1R90; CPBHM; JM21; Histone deacetylase 6

Application Instructions

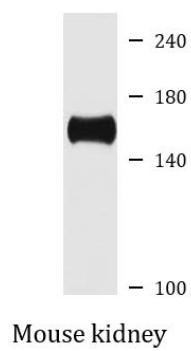
Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	IP	1:50 - 1:200
	WB	1:500 - 1:2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse kidney	

Properties

Form	Liquid
Purification	Affinity purification with immunogen.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Database links	GeneID: 10013 Human GeneID: 15185 Mouse Swiss-port # Q9UBN7 Human Swiss-port # Q9Z2V5 Mouse
Gene Symbol	HDAC6
Gene Full Name	histone deacetylase 6
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	<p>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.</p> <p>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 juxtanuclear structure called aggresome. Probably acts as an adapter that recognizes polyubiquitinated misfolded proteins and target them to the aggresome, facilitating their clearance by autophagy. [UniProt]</p>
Highlight	Related news: m6A reader YTHDF2 in mRNA decay and aggresome formation;
Calculated Mw	131 kDa
PTM	Phosphorylated by AURKA. Ubiquitinated. Its polyubiquitination however does not lead to its degradation. Sumoylated in vitro.



ARG56561 anti-HDAC6 antibody WB image

Western blot: Mouse kidney lysate stained with ARG56561 anti-HDAC6 antibody.