HDAC10 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HDAC10, Polyclonal Antibody
Full Product Name	HDAC10, NT (Histone Deacetylase 10, HD10) (MaxLight 490)
Product Gene Name	anti-HDAC10 antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein G Affinity Chromatography.
Specificity	Recognizes human HDAC10.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	71,445 Da
Chromosome Location	Chromosome: 22; NC_000022.10 (50683612..50689834, complement). Location: 22q13.31
OMIM	608544
3D Structure	ModBase 3D Structure for Q969S8
Immunogen	KLH-conjugated synthetic peptide corresponding to a portion of amino acids within aa24-54 of human HDAC10.
Conjugate	MaxLight490
Note	Preservative Free
Product Categories/Family for anti-HDAC10 antibody	Antibodies; Enzymes; Deacetylase
Applications Tested/Suitable for anti-HDAC10 antibody	Western Blot (WB), FLISA
Application Notes for anti-HDAC10 antibody	WB: 1:50-1:100 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-HDAC10 antibody	MBS6479592 is an antibody targeting HDAC10. Also known as HDAC10, NT (Histone Deacetylase 10, HD10) (MaxLight 490). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-HDAC10 antibody	1. Keedy, K.S. et al. J Virol. May; 83(10): 4749-4756(2009). 2. Tong, J.J., et al., Nucleic Acids Res. 30(5):1114-1123 (2002). 3. Fischer, D.D., et al., J. Biol. Chem. 277(8):6656-6666 (2002). 4. Guardiola, A.R., et al., J. Biol. Chem. 277(5):3350-3356 (2002). 5. Kao, H.Y., et al., J. Biol. Chem. 277(1):187-193 (2002). 6.Kara S. Keedy, et al. J. Virol. 2009; 83:4749-4756. (E-pub).
Other Notes	Small volumes of anti-HDAC10 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HDAC10. It may not necessarily be applicable to this product.

NCBI GI #	226529806
NCBI GeneID	83933
NCBI Accession #	NP_001152758.1
UniProt Primary Accession #	Q969S8
UniProt Secondary Accession #	Q08AP4; Q6STF9; Q96P77; Q96P78; Q9H028; Q9UGX1; Q9UGX2
UniProt Related Accession #	Q969S8
GenBank Nucleotide #	NM_001159286.1
NCBI Official Full Name	histone deacetylase 10 isoform 2
NCBI Official Synonym Full Names	histone deacetylase 10
NCBI Official Symbol	HDAC10
NCBI Official Synonym Symbols	HD10
UniProt Protein Name	Histone deacetylase 10
Protein Family	Histone deacetylase
UniProt Gene Name	HDAC10
UniProt Synonym Gene Names	HD10
UniProt Entry Name	HDA10_HUMAN
NCBI Protein Information	histone deacetylase 10
NCBI Summary for HDAC10	The protein encoded by this gene belongs to the histone deacetylase family, members of which deacetylate lysine residues on the N-terminal part of the core histones. Histone deacetylation modulates chromatin structure, and plays an important role in transcriptional regulation, cell cycle progression, and developmental events. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]
UniProt Comments for HDAC10	HDAC10: 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. Belongs to the histone deacetylase family. HD type 2 subfamily. 4 isoforms of the human protein are produced by alternative splicing. Protein type: Deacetylase; EC 3.5.1.98; Transcription factor Chromosomal Location of Human Ortholog: 22q13.31 Cellular Component: nucleoplasm; histone deacetylase complex; cytoplasm; nucleus Molecular Function: protein binding; NAD-dependent histone deacetylase activity (H3-K9 specific); enzyme binding; NAD-dependent histone deacetylase activity (H3-K14 specific); histone deacetylase binding; protein deacetylase activity; NAD-dependent histone deacetylase activity (H4-K16 specific); histone deacetylase activity Biological Process: Notch signaling pathway; establishment and/or maintenance of chromatin architecture; transcription, DNA-dependent; protein amino acid deacetylation; regulation of transcription, DNA-dependent; histone deacetylation; chromatin modification; negative regulation of transcription from RNA polymerase II promoter; oligodendrocyte development; negative regulation of transcription, DNA-dependent
Research Articles on HDAC10	**1.** Histone deacetylases 9 and 10 are required for homologous recombination.

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