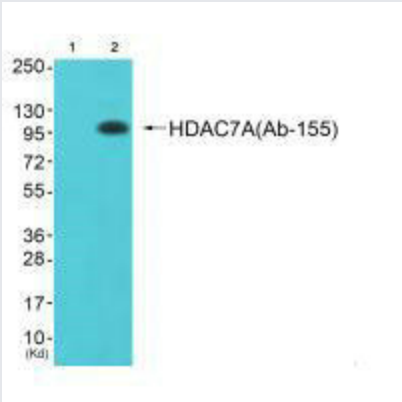
HDAC7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	HDAC7, Polyclonal Antibody
Full Product Name	HDAC7 (Ab-155) Antibody
Product Gene Name	anti-HDAC7 antibody
Product Synonym Names	HD7a; HDA7; HDAC7A; Histone
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Liquid; Rabbit IgG In Phosphate Buffered Saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% Sodium Azide and 50% Glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.
Molecular Weight	102,927 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (48176505..48213763, complement). Location: 12q13.1
OMIM	606542
3D Structure	ModBase 3D Structure for Q8WUI4
Immunogen	Synthesized non-phosphopeptide derived from human HDAC7A around the phosphorylation site of serine 155 (T-V-S(p)-E-P).
Immunogen Species	Human
Conjugate	Non-conjugated
Product Categories/Family for anti-HDAC7 antibody	Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-HDAC7 antibody	ELISA (EIA), Western Blot (WB)
Application Notes for anti-HDAC7 antibody	WB: 1:500-1:3000
Related Product Information for anti-HDAC7 antibody	MBS7130652 is an antibody targeting HDAC7. Also known as HDAC7 (Ab-155) Antibody. Reactive in Human, Mouse. Host: Rabbit.
Other Notes	Small volumes of anti-HDAC7 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.



Western Blot (WB) of anti-HDAC7 antibody
Western blot analysis of extracts from JK cells (Lane 2), using HDAC7A (Ab-155) antiobdy.
The lane on the left is treated with synthesized peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HDAC7. It may not necessarily be applicable to this product.

NCBI GI #	148539870
NCBI GeneID	51564
NCBI Accession #	NP_001091886.1
UniProt Primary Accession #	Q8WUI4
UniProt Secondary Accession #	Q6P1W9; Q6W9G7; Q7Z4K2; Q7Z5I1; Q96K01; Q9BR73; Q9H7L0; Q9NW41; B3KY08; B4DWI0; B4E0Q5
UniProt Related Accession #	Q8WUI4
GenBank Nucleotide #	NM_001098416.2
NCBI Official Full Name	histone deacetylase 7 isoform d
NCBI Official Synonym Full Names	histone deacetylase 7
NCBI Official Symbol	HDAC7
NCBI Official Synonym Symbols	HD7A; HDAC7A
UniProt Protein Name	Histone deacetylase 7
UniProt Synonym Protein Names	Histone deacetylase 7A
UniProt Gene Name	HDAC7
UniProt Synonym Gene Names	HDAC7A; HD7; HD7a
UniProt Entry Name	HDAC7_HUMAN
NCBI Protein Information	histone deacetylase 7; HD7; histone deacetylase 7A
NCBI Summary for HDAC7	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 has sequence homology to members of the histone deacetylase family. This gene is orthologous to mouse HDAC7 gene whose protein promotes repression mediated via the transcriptional corepressor SMRT. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

UniProt Comments for HDAC7	HDAC7: 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. Involved in muscle maturation by repressing transcription of myocyte enhancer factors such as MEF2A, MEF2B and MEF2C. During muscle differentiation, it shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors. May be involved in Epstein-Barr virus (EBV) latency, possibly by repressing the viral BZLF1 gene. Interacts with HDAC1, HDAC2, HDAC3, HDAC4, HDAC5, NCOR1, NCOR2, SIN3A, SIN3B, RBBP4, RBBP7, MTA1L1, SAP30 and MBD3. Interacts with the 14-3-3 protein YWHAE, MEF2A, MEF2B and MEF2C. Interacts with KAT5 and EDNRA. Interacts with KDM5B. Interacts with ZMYND15. Belongs to the histone deacetylase family. HD type 2 subfamily. 10 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.5.1.98; Hydrolase Chromosomal Location of Human Ortholog: 12q13.1 Cellular Component: nucleoplasm; cytoplasm; histone deacetylase complex; nucleus Molecular Function: NAD-dependent histone deacetylase activity (H3-K9 specific); protein binding; protein kinase C binding; transcription activator binding; NAD-dependent histone deacetylase activity (H3-K14 specific); metal ion binding; chromatin binding; NAD-dependent histone deacetylase activity (H4-K16 specific); protein kinase binding; transcription corepressor activity Biological Process: intercellular junction assembly; Notch signaling pathway; transcription, DNA-dependent; negative regulation of osteoblast differentiation; negative regulation of transcription from RNA polymerase II promoter; vasculogenesis; negative regulation of interleukin-2 production
Research Articles on HDAC7	**1.** VEGF and PKC promote degradation-independent protein ubiquitination of FLNB to control intracellular trafficking of HDAC7.
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