

Rabbit HDAC9 Polyclonal Antibody | anti-HDAC9 antibody

HDAC9 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA328222	Rabbit	Human, MousePredicted: Pig, Horse, Rabbit, Dog	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

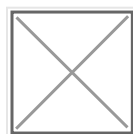
PRODUCT SYNONYMS

HDAC9; Polyclonal Antibody; HDAC9 Antibody; HD 7; HD 7B; HD 9; HD7; HD7B; HD9; HDAC 7; HDAC 7B; HDAC 9; HDAC 9B; HDAC 9FL; HDAC; HDAC7; HDAC7B; HDAC9_HUMAN; HDAC9B; HDAC9FL; HDRP; Histone deacetylase 4/5 related protein; Histone deacetylase 7; Histone deacetylase 7B; Histone deacetylase 9; Histone deacetylase 9A; Histone deacetylase related protein; Histone deacetylase-related protein; KIAA0744; MEF2 interacting transcription repressor MITR; MEF2 interacting transcription repressor protein; MEF2-interacting transcription repressor MITR; MITR; anti-HDAC9 antibody

PRODUCT SPECIFICATIONS

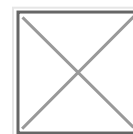
Host	Rabbit
Reactivity	Human, Mouse Predicted: Pig, Horse, Rabbit, Dog
Clonality	Polyclonal
Isotype	IgG
Specificity	HDAC9 Antibody detects endogenous levels of total HDAC9.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific).
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	588
Applicable Applications for anti-HDAC9 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human HDAC9.
Tissue Specificity	Broadly expressed, with highest levels in brain, heart, muscle and testis. Isoform 3 is present in human bladder carcinoma cells (at protein level).
Subcellular Location	Nucleus
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



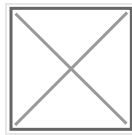
WB (Western Blot)

Western blot analysis of HDAC9 expression in HepG2 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

At 1/100 staining Mouse testis tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample 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



IF (Immunofluorescence)

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

ADDITIONAL INFORMATION

Related Product Information for anti-HDAC9 antibody	Description: 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. Represses MEF2-dependent transcription.
	Post Translational Modifications: Phosphorylated on Ser-220 and Ser-450; which promotes 14-3-3-binding, impairs interaction with MEF2, and antagonizes antimyogenic activity. Phosphorylated on Ser-240; which impairs nuclear accumulation (By similarity). Isoform 7 is phosphorylated on Tyr-1010. Phosphorylated by the PKC kinases PKN1 and PKN2, impairing nuclear import. Sumoylated.
	Subunit Structure: Homodimer. Interacts with CTBP1. The phosphorylated form interacts with 14-3-3 (By similarity). Interacts with HDAC1 and HDAC3, and probably with HDAC4 and HDAC5. Interacts with MEF2, MAPK10, ETV6, NCOR1 and BCL6. Interacts with FOXP3 in the absence of T-cell stimulation.
	Similarity: Belongs to the histone deacetylase family. HD type 2 subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	323423044
NCBI GeneID	9734
NCBI Accession #	NP_001191073.1
NCBI GenBank Nucleotide #	NP_001191073.1
UniProt Accession #	Q9UKV0
Molecular Weight	Observed: 110 kDa Predicted: 112 kDa
NCBI Official Full Name	histone deacetylase 9 isoform 6
NCBI Official Synonym Full Names	histone deacetylase 9
NCBI Official Symbol	HDAC9
NCBI Official Synonym Symbols	HD7; HD9; HD7b; HDAC; HDRP; MITR; HDAC7; HDAC7B; HDAC9B; HDAC9FL
NCBI Protein Information	histone deacetylase 9
UniProt Protein Name	Histone deacetylase 9
UniProt Gene Name	HDAC9
UniProt Synonym Gene Names	HDAC7; HDAC7B; HDRP; KIAA0744; MITR; HD9; HD7; HD7b
UniProt Entry Name	HDAC9_HUMAN

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.