

Datasheet for 600-401-J74**HDAC9 (internal) Antibody****Overview**

Description:	Anti-HDAC9 (RABBIT) Antibody - 600-401-J74
Item No.:	600-401-J74
Size:	100 µg
Applications:	IHC
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	HDAC9 is located in the nucleus, expressed most highly in brain, heart, muscle, and testis. It is responsible for the deacetylation of lysine residues on the N-terminal region of the core histones (H2A, H2B, H3 and H4). The result of deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. HDAC9 represses MEF2-dependent transcription by recruiting HDAC1 and 3. It appears to inhibit skeletal myogenesis and be a factor in heart development. By repressing JUN transcription via HDAC1 and inhibiting JUN phosphorylation by MAPK10, HDAC9 protects neurons from apoptosis. Anti-HDAC9 therefore is ideal for investigators interested in Cardiovascular or Epigenetics and Nuclear Signaling research.
Synonyms:	rabbit anti-HDAC-9 antibody, HDAC9, HDAC 9, HD-9, HD 9, Histone deacetylase 9, Histone deacetylase-9, HD9, Histone deacetylase 7B, HD7, HD7b, Histone deacetylase-related protein, MEF2-interacting transcription repressor MITR, HDAC7, HDAC7B, HDRP, MITR
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HDAC9
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-HDAC9 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the internal region of human HDAC9 protein.
Purity/Specificity:	Anti-HDAC9 was affinity purified from monospecific antiserum by immunoaffinity chromatography. A BLAST analysis was used to suggest cross-reactivity with human based on 100% sequence homology. Cross-reactivity with HDAC9 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9UKV0

Application Details

Tested Applications:	IHC
Application Note:	Anti-HDAC9 antibody is tested by Immunohistochemistry and useful for ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~111kDa corresponding to the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1: 10,000
IHC:	5 µg/mL
WB:	1ug/ml

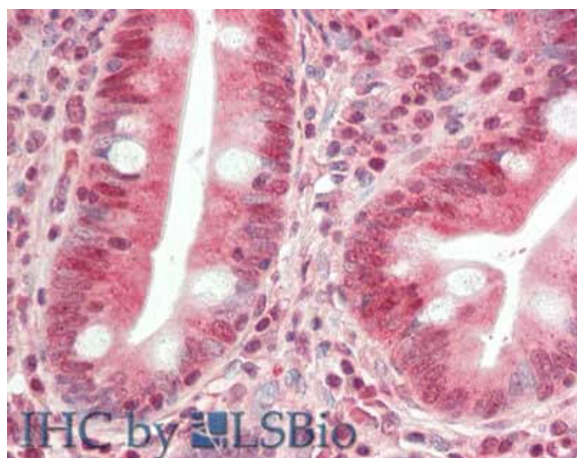
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.1 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Stabilizer:	30% Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Immunohistochemistry

Immunohistochemistry of Rabbit anti-HDAC9 antibody.
Tissue: Small Intestine. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: HDAC9 antibody at 5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Staining: HDAC9 as precipitated red signal with hematoxylin purple nuclear counterstain.

Disclaimer

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