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Datasheet for ABIN734903

anti-HDAC3 antibody

4 Images

Overview

Quantity:	100 µL
Target:	HDAC3
Reactivity:	Human, Mouse, Rat, Dog, Chicken
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HDAC3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human HDAC3
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Purified by Protein A.

Target Details

Target:	HDAC3
Alternative Name:	HDAC3/HD3 (HDAC3 Products)
Background:	Synonyms: HD3, RPD3, RPD3-2, Histone deacetylase 3, SMAP45, HDAC3 Background: Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4), and some other non-histone substrates. Histone

Target Details

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. Participates in the BCL6 transcriptional repressor activity by deacetylating the H3 'Lys-27' (H3K27) on enhancer elements, antagonizing EP3 acetyltransferase activity and repressing proximal gene expression. Probably participates in the regulation of transcription through its binding to the zinc-finger transcription factor YY1, increases YY1 repression activity. Required to repress transcription of the POU1F1 transcription factor. Acts as a molecular chaperone for shuttling phosphorylated NR2C1 to PML bodies for sumoylation.

Molecular Weight: 47kDa

Gene ID: 8841

UniProt: [O15379](#)

Pathways: [Neurotrophin Signaling Pathway](#), [Regulation of Lipid Metabolism by PPARAlpha](#), [Regulation of Muscle Cell Differentiation](#), [Skeletal Muscle Fiber Development](#)

Application Details

Application Notes: WB(1:100-500)
Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 1 % BSA, 50 % glycerol and 0.09 % sodium azide.

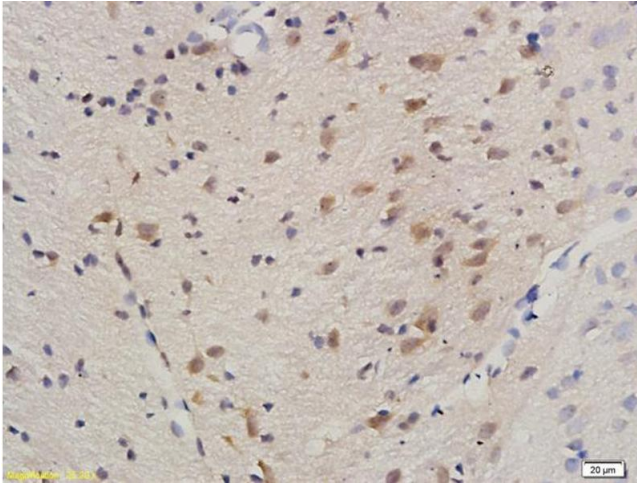
Preservative: Sodium azide

Precaution of Use: This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

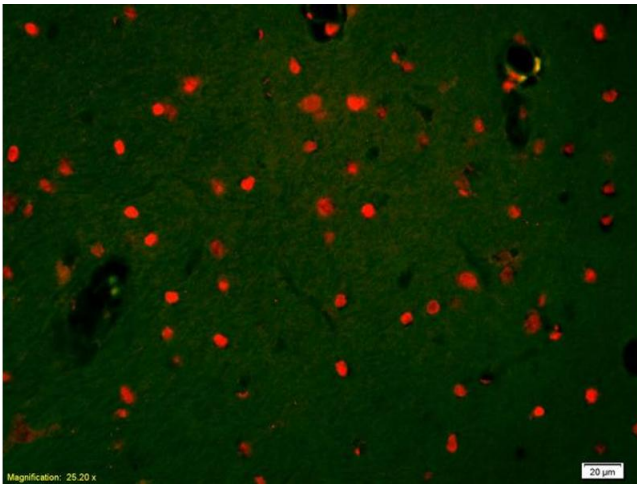
Storage Comment: Store at -20°C for 12 months.

Expiry Date: 12 months



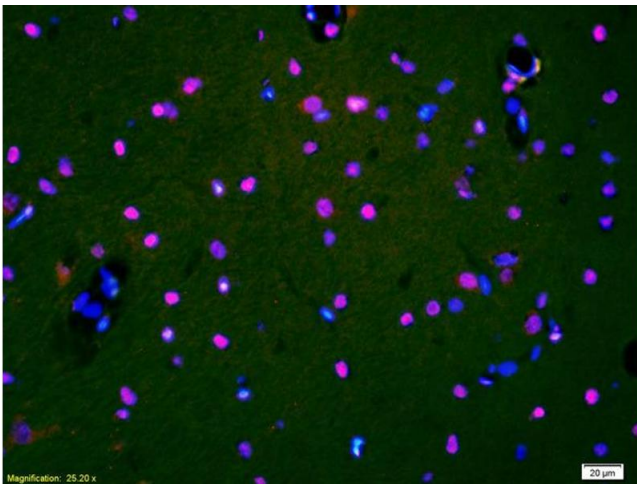
Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded rat brain labeled with Anti-HDAC3/HD3 Polyclonal Antibody, Unconjugated (ABIN734903) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



Immunofluorescence

Image 2. Formalin-fixed and paraffin-embedded rat brain labeled with Anti-HDAC3/HD3 Polyclonal Antibody, Unconjugated (ABIN734903) 1:200, overnight at 4 °C, The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37 °C.



Immunofluorescence

Image 3. Formalin-fixed and paraffin-embedded rat brain labeled with Anti-HDAC3/HD3 Polyclonal Antibody, Unconjugated (ABIN734903) 1:200, overnight at 4 °C, The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated used at 1:200 dilution for 40 minutes at 37 °C and DAPI staining.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN734903.