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Datasheet for 600-401-J16

HDAC1 (near C-terminus) Antibody

Overview

Description:	Anti-HDAC1 (RABBIT) Antibody - 600-401-J16
Item No.:	600-401-J16
Size:	100 µg
Applications:	WB
Reactivity:	Human, Mouse, Rat, Primate
Host Species:	Rabbit

Product Details

Background:	HDAC1 (also known as HD1, histone deacetylase 1, RPD3, RPD3L1) belongs to the histone deacetylase/acuc/apha family and is a component of the histone deacetylase complex. Histone acetylation and deacetylation, catalyzed by multisubunit complexes, play a key role in the regulation of eukaryotic gene expression. It also interacts with retinoblastoma tumor-suppressor protein and this complex is a key element in the control of cell proliferation and differentiation. Together with metastasis-associated protein-2, it deacetylates p53 and modulates its effect on cell growth and apoptosis. Anti-HDAC1 antibodies are ideal for researchers interested in Apoptosis, Breast Cancer, Cancer, Cell Cycle and Replication, Checkpoint signaling, Core ESC Like Genes, Chromatin Research, DNA Double Strand Break Repair, Epigenetics, DNA Repair, Histone Deacetylases, and Stem Cell Marker research.
Synonyms:	rabbit anti-HDAC-1 antibody, HDAC1, HDAC 1, HD 1 antibody, histone deacetylase 1 antibody, Histone deacetylase-1, HD1 antibody, RPD3L1, reduced potassium dependency yeast homolog like 1 antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HDAC1
Reactivity:	Human, Mouse, Rat, Primate

Immunogen Type:	Conjugated Peptide
Immunogen:	HDAC1 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region of human HDAC1.
Purity/Specificity:	Anti-HDAC1 was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific towards HDAC1. A BLAST analysis was used to suggest cross-reactivity with Human, Mouse, Rat, and Primate based on 100% sequence homology. Cross-reactivity with HDAC1 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q13547 • NCBI - NP_004955.2 • GeneID - 3065

Application Details

Tested Applications:	WB
Application Note:	Anti-HDAC1 antibody is tested for ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~62 kDa 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:	1:20,000 - 1:60,000
IF:	1:100-1:500
IHC:	1:100-1:500
WB:	1 µg/ml

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	0.59 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	50% (v/v) 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 six (6) months from date of receipt.

Images



Western Blot
Western Blot of Rabbit Anti-HDAC1 antibody. Lane 1: mouse brain extract. Lane 2: mouse brain extract blocked with peptide. Load: 5 µg per lane. Primary antibody: HDAC1 antibody at 1µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 62 kDa for HDAC1.

Disclaimer

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