

## Datasheet for 600-401-J16

**HDAC1 (near C-terminus) Antibody****Overview**

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

**Product Details**

<b>Background:</b>	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.
<b>Synonyms:</b>	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
<b>Host Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>Format:</b>	IgG

**Target Details**

<b>Gene Name:</b>	HDAC1
<b>Reactivity:</b>	Human, Mouse, Rat, Primate

<b>Immunogen Type:</b>	Conjugated Peptide
<b>Immunogen:</b>	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.
<b>Purity/Specificity:</b>	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.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q13547</a></li><li>• <a href="#">NCBI - NP_004955.2</a></li><li>• <a href="#">GeneID - 3065</a></li></ul>

## Application Details

<b>Tested Applications:</b>	WB
<b>Application Note:</b>	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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:20,000 - 1:60,000
<b>IF:</b>	1:100-1:500
<b>IHC:</b>	1:100-1:500
<b>WB:</b>	1 µg/ml

## Formulation

<b>Physical State:</b>	Liquid (sterile filtered)
<b>Concentration:</b>	0.59 mg/ml by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
<b>Preservative:</b>	None
<b>Stabilizer:</b>	50% (v/v) Glycerol

## Shipping & Handling

<b>Shipping Condition:</b>	Dry Ice
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<b>Storage Condition:</b>	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.
<b>Expiration:</b>	Expiration date is six (6) months from date of receipt.

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## 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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.