

Datasheet for 600-401-J22**HDAC7 (N-terminus) Antibody****Overview**

Description:	Anti-HDAC7 (RABBIT) Antibody - 600-401-J22
Item No.:	600-401-J22
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human, Mouse, Rat, Primate
Host Species:	Rabbit

Product Details

Background:	HDAC7 is a member of the class II mammalian histone deacetylases, which plays an important role in modulating the eukaryotic chromatin structure. Human HDAC7 is composed of 912 amino acid residues. Although HDAC7 is localized mostly to the cell nucleus, it is also found in the cytoplasm, suggesting nucleo-cytoplasmic shuttling. The histone deacetylase activity of HDAC7 maps to a carboxy-terminal domain and is dependent on interaction with class I HDACs in the nucleus. It is an active component of different transcriptional corepressor complexes that can be recruited to specific promoter regions via interactions with a growing number of sequence specific transcriptional factors. HDAC7 catalyzes removal of acetyl-groups from acetyl-lysines of histones and promotes compaction of chromatin in these regions, leading to the inhibition of gene transcription. Anti-HDAC7 antibodies are ideal for researches interested in Breast Cancer, Cancer, Cell Cycle and Replication, Chromatin Research, Epigenetics, and Histone Deacetylases research.
Synonyms:	rabbit anti-HDAC-7 antibody, HDAC7, HDAC 7, HD 7 antibody, histone deacetylase 7 antibody, Histone deacetylase-7, HD7A antibody, histone deacetylase 7A antibody, Histone deacetylase-7A, HDAC7A, HDAC 7A, HDAC-7A, HD-7A
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HDAC7
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Reactivity:	Human, Mouse, Rat, Primate
Immunogen Type:	Conjugated Peptide
Immunogen:	HDAC7 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the N terminal region of human HDAC7.
Purity/Specificity:	Anti-HDAC7 was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific towards HDAC7. A BLAST analysis was used to suggest cross-reactivity with Human, Mouse, Rat and Primate based on 100% sequence homology. Cross-reactivity with HDAC7 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8WUI4 • NCBI - NP_001091886.1 • GeneID - 51564

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-HDAC7 antibody has been tested by ELISA and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~103kDa and isoforms at ~70, and 40 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

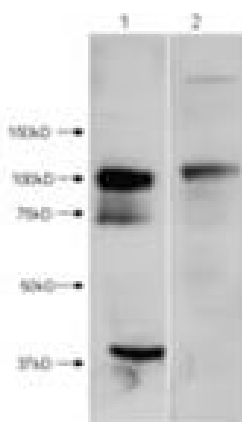
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.16 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

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-HDAC7 antibody. Lane 1: mouse brain homogenate. Lane 2: mouse brain homogenate blocked with peptide. Load: 4 µg per lane. Primary antibody: HDAC7 antibody at 1µg/mL for overnight at 4°C. Secondary antibody: HRP rabbit secondary antibody at 1:40,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~103kDa/ ~103, 70, and 40kDa for HDAC7. Other band(s): HDAC7 isoforms ~70 and 40kDa.

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.