Datasheet for 600-401-J21

HDAC5 (internal) Antibody

Overview

Description:	Anti-HDAC5 (RABBIT) Antibody - 600-401-J21
Item No.:	600-401-J21
Size:	100 µg
Applications:	Dot Blot, ELISA, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	HDAC5 is a member of the class II mammalian histone deacetylase family, which is structurally related to yeast HDA1. Human HDAC5 is composed of 1122 amino acid residues. The deacetylase domain of HDAC5 is located at the C-terminal half of the molecule. The N-terminal non-deacetylase domain does not show any significant homology with any published sequence. Both domains are required for HDAC5-mediated repression of gene transcription. HDAC5 interacts with a growing number of transcriptional factors including MEF2A as well as other HDAC proteins. The interacting complexes bind to specific regions of chromatin and regulate gene transcription in these regions. Anti-HDAC5 antibodies are ideal for researchers interested in Breast Cancer, Cancer, Cell Cycle and Replication, Chromatin Research, Epigenetics, and Histone Deacetylases research.
Synonyms:	rabbit anti-HDAC-5 antibody, HDAC5, HDAC 5, HD 5 antibody, histone deacetylase 5 antibody, Histone deacetylase-5, HD5 antibody, NY-CO-9
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HDAC5
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	HDAC5 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the internal region surrounding phosphoserine 661 of human HDAC5.
Purity/Specificity:	Anti-HDAC5 was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific towards HDAC5. A BLAST analysis was used to suggest cross-reactivity with Human based on 100% sequence homology. Cross-reactivity with HDAC5 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9UQL6 • NCBI - NP_005465.2 • GeneID - 10014

Application Details

Tested Applications:	Dot Blot, ELISA, WB
Application Note:	Anti-HDAC5 antibody has been tested in ELISA, dot blot, and Western Blot. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately ~124 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:	0.2 µg/ml

Formulation

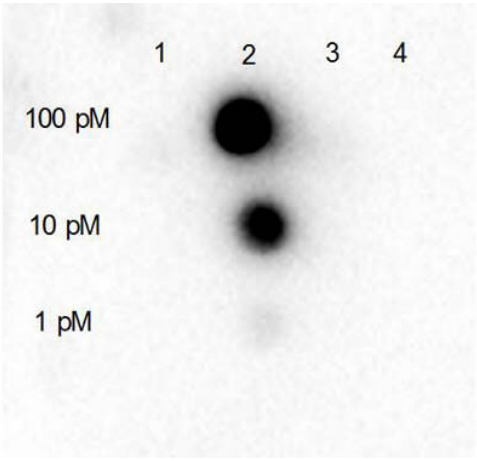
Physical State:	Liquid (sterile filtered)
Concentration:	1.12 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	None
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Dry Ice

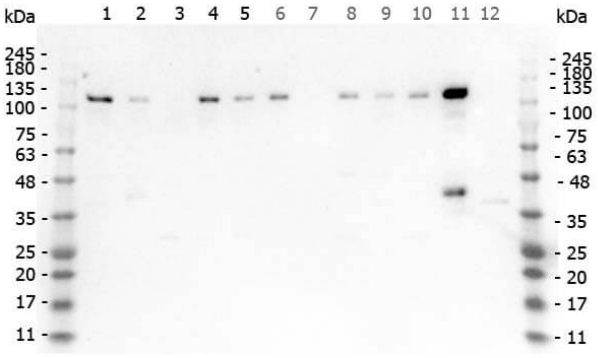
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Dot Blot
Dot blot for Rabbit Anti-HDAC5 (internal) Antibody. Lane 1: HDAC-4 (internal). Lane 2: HDAC-5 (p/n 600-401-J21). Lane 3: HDAC-5 (600-401-J68). Lane 4: HDAC-7 (p/n 600-401-J22). Load: 100, 10, and 1 picomoles of peptide. Primary antibody: HDAC-5 antibody at 1:1000 for 45 min at 4°C. Secondary antibody: Dylight™488 rabbit secondary antibody (p/n 611-141-122) at 1:10,000 for 45 min at RT. Block: 5% BLOTTO (p/n B501) overnight at 4°C.

Western Blot
Western Blot of Rabbit anti-HDAC5 antibody. Lane 1: mouse brain extract. Load: 5 µg per lane. Primary antibody: HDAC5 antibody at 0.2µg/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: 124 kDa for HDAC5.



Western Blot

Western Blot of Rabbit anti-HDAC5 antibody. Marker: Opal Pre-stained ladder (p/n MB-210-0500). Lane 1: HEK293 lysate (p/n W09-000-365). Lane 2: HeLa Lysate (p/n W09-000-364). Lane 3: MCF-7 Lysate (p/n W09-000-360). Lane 4: Jurkat Lysate (p/n W09-000-370). Lane 5: A431 Lysate (p/n W09-000-361). Lane 6: A549 Lysate (p/n W09-001-372). Lane 7: LNCap Lysate (p/n W09-001-GJ9). Lane 8: MOLT-4 Lysate (p/n W09-001-GK2). Lane 9: Ramos Lysate (p/n W09-000-GK4). Lane 10: Raji Lysate (p/n W09-001-368). Lane 11: A-172 Lysate (p/n W09-001-GL5). Lane 12: NIH/3T3 Lysate (p/n W10-000-358). Load: 35 µg per lane. Primary antibody: HDAC5 antibody at 1ug/mL overnight at 4C. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-103-122) at 1:30,000 for 60 min at RT. Blocking Buffer: 1% Casein-TTBS (p/n MB-082) for 30 min at RT. Predicted/Observed size: 124kDa for HDAC5.

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