Datasheet for ABIN1607888

anti-HDAC5 antibody (Internal Region)

3 Images

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Overview

Quantity:	100 µg
Target:	HDAC5
Binding Specificity:	Internal Region
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Fluorescence Microscopy (FM)

Product Details

Immunogen:	HDAC5 affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to the internal region of human HDAC5. Immunogen Type: Peptide
Cross-Reactivity (Details):	Cross reactivity with HDAC5 from other sources has not been determined.
Purity:	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.
Endotoxin Level:	Low Endotoxin : No

Target Details

Target:	HDAC5
Alternative Name:	HDAC5 (HDAC5 Products)

Target 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: Antigen NY-CO-9, EC 3.5.1.98, FLJ90614, HD5, histone deacetylase 5, KIAA0600, NY-CO-9
Gene ID:	10014
NCBI Accession:	NP_005465
UniProt:	Q9UQL6
Pathways:	Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development, Monocarboxylic Acid Catabolic Process

Application Details

Application Notes:	Anti-HDAC5 antibody is useful for ELISA 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. ELISA Dilution: 1:20.000 - 1:60.000 Immunohistochemistry Dilution: 1:100-1:500 IF Microscopy Dilution: 1:100-1:500 Western Blot Dilution: 0.2 µg/mL
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.12 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2 Stabilizer: 50 % (v/v) Glycerol

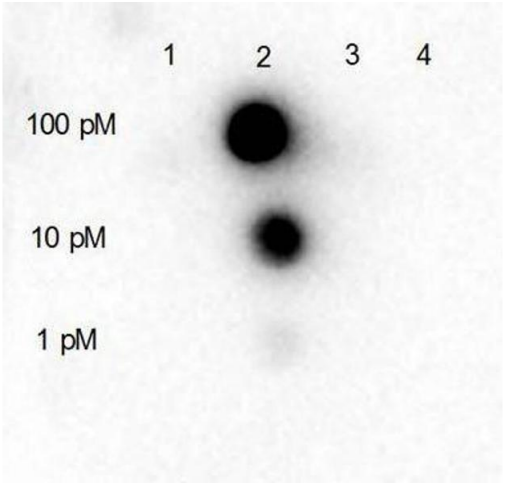
Handling

Storage:	4 °C/-20 °C
Storage Comment:	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.
Expiry Date:	Expiration date is six (6) months from date of opening.

Images

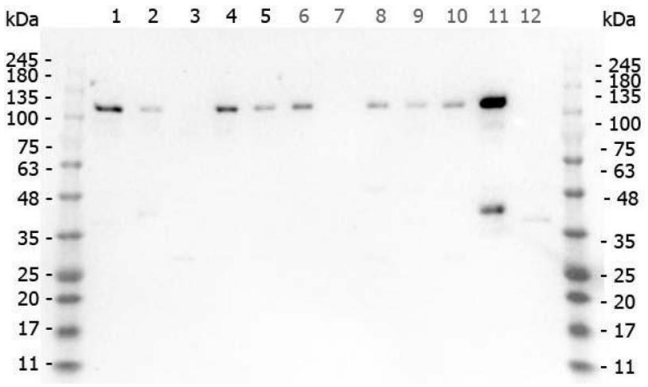
Western Blotting

Image 1. 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: 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.



Dot Blot

Image 2. Dot blot for Rabbit Anti-HDAC5 (internal) Antibody. Lane 1: HDAC-4 (internal). Lane 2: HDAC-5 (). Lane 3: HDAC-5 (600-401-J68). Lane 4: HDAC-7 (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:488 rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C.



Western Blotting

Image 3. Western Blot of Rabbit anti-HDAC5 antibody. Marker: Opal Pre-stained ladder . Lane 1: HEK293 lysate . Lane 2: HeLa Lysate . Lane 3: MCF-7 Lysate . Lane 4: Jurkat Lysate . Lane 5: A431 Lysate . Lane 6: A549 Lysate . Lane 7: LNCap Lysate . Lane 8: MOLT-4 Lysate . Lane 9: Ramos Lysate . Lane 10: Raji Lsyate . Lane 11: A-172 Lysate . Lane 12: NIH/3T3 Lysate . Load: 35 µg per lane. Primary antibody: HDAC5 antibody at 1ug/mL overnight at 4C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:30,000 for 60 min at RT. Blocking Buffer: 1% Casein-TTBS for 30 min at RT. Predicted/Observed size: 124kDa for HDAC5.