10320 Camino Santa Fe, Suite G
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Anti-HDAC11 Picoband Antibody

Catalog # ABO12316

Specification

Anti-HDAC11 Picoband Antibody - Product Information

Application	**WB, IHC-P**
Primary Accession	Q96DB2
Host	**Rabbit**
Reactivity	**Human, Mouse, Rat**
Clonality	**Polyclonal**
Format	**Lyophilized**

Description
Rabbit IgG polyclonal antibody for Histone deacetylase 11(HDAC11) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution
Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-HDAC11 Picoband Antibody - Additional Information

Gene ID 79885

Other Names
Histone deacetylase 11, HD11, 3.5.1.98, HDAC11

Calculated MW
39183 MW KDa

Application Details
Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, Human, By Heat

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization
Nucleus. Predominantly nuclear.

Tissue Specificity
Weakly expressed in most tissues. Strongly expressed in brain, heart, skeletal muscle, kidney and testis.

Protein Name
Histone deacetylase 11

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen
A synthetic peptide corresponding to a sequence at the N-terminus of human HDAC11 (47-81aa NFLKEEKLLSDSMLVEAREASEEDLLVVHTRRYLN), different from the related mouse sequence by one amino acid.

Purification
Immunogen affinity purified.

Cross Reactivity
No cross reactivity with other proteins

Storage	**At -20˚C for one year. After r˚Constitution, at 4˚C for one month. It˚Can also be aliquotted and stored frozen at -20˚C for a longer time.Avoid repeated freezing and thawing.**

Anti-HDAC11 Picoband Antibody - Protein Information

Name HDAC11

Function
Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes.

Cellular Location
Nucleus.

Tissue Location
Weakly expressed in most tissues. Strongly expressed in brain, heart, skeletal muscle, kidney and testis

Anti-HDAC11 Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-HDAC11 Picoband Antibody - Images

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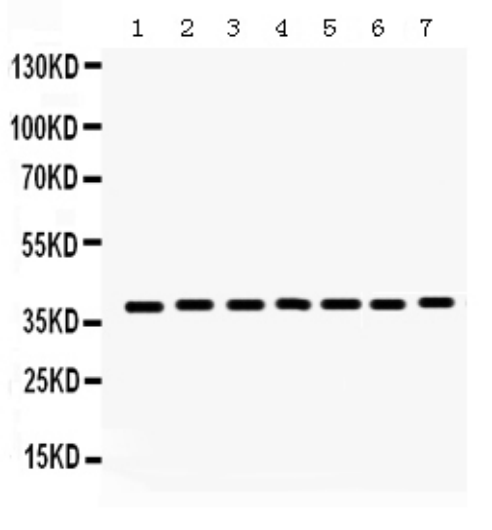
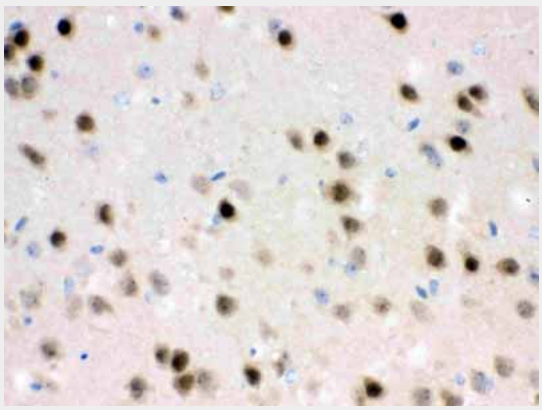
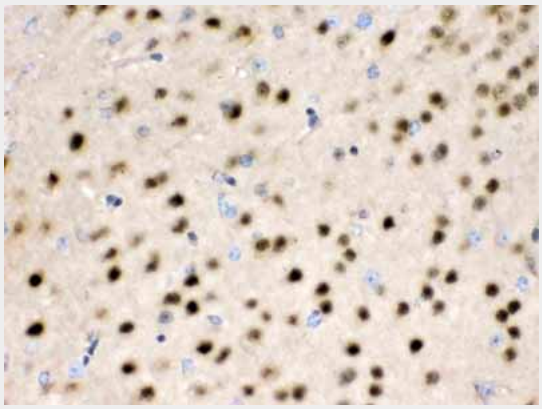


Anti- HDAC11 Picoband antibody, ABO12316, Western blottingAll lanes: Anti HDAC11 (ABO12316) at 0.5ug/mlLane 1: Rat Skeletal Muscle Tissue Lysate at 50ugLane 2: Rat Kidney Tissue Lysate at 50ugLane 3: Rat Cardiac Muscle Tissue Lysate at 50ugLane 4: NRK Whole Cell Lysate at 40ugLane 5: 293T Whole Cell Lysate at 40ugLane 6: HELA Whole Cell Lysate at 40ugLane 7: MCF-7 Whole Cell Lysate at 40ugPredicted bind size: 39KDObserved bind size: 39KD



Anti- HDAC11 Picoband antibody, ABO12316,IHC(P)IHC(P): Mouse Brain Tissue



Anti- HDAC11 Picoband antibody, ABO12316,IHC(P)IHC(P): Rat Brain Tissue

Anti-HDAC11 Picoband Antibody - Background

Histone deacetylase 11 is a 39kDa histone deacetylase enzyme that in humans is encoded by the HDAC11 gene on chromosome 3 in humans and chromosome 6 in mice. This gene encodes a class

IV histone deacetylase. And the encoded protein is localized to the nucleus and may be involved in regulating the expression of interleukin 10. Alternative splicing results in multiple transcript variants. HDAC11 expression is normally found in brain and testis tissue, but upregulation of HDAC11 expression has also been seen in various cancer cells. In addition, HDAC11 has been shown to be a negative regulator of IL-10 production in antigen presenting cells. It has also been shown that inhibition of HDAC11 results in increased expression of OX40L in Hodgkin lymphoma cells.