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HDAC9 Antibody
Rabbit Polyclonal Antibody
Catalog # ABV10454

Specification

HDAC9 Antibody - Product Information

Application	**WB**
Primary Accession	Q9UKV0
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**111297**

HDAC9 Antibody - Additional Information

Gene ID 9734

Application & Usage	**Western blotting (0.5-4 µg/ml), Immunoprecipitation and immunofluorescence. However, the optimal concentrations should be determined individually. The antibody recognizes a ~110-140 kDa of HDAC-9. A 75 kDa and a 60 kDa bands can also be detected in some tissue lysates.**

Other Names
HD9 , Histone deacetylase 9

Target/Specificity
HDAC9

Antibody Form
Liquid

Appearance
Colorless liquid

Formulation
100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

Handling
The antibody solution should be gently mixed before use.

Reconstitution & Storage
-20 °C

Background Descriptions

Precautions
HDAC9 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

HDAC9 Antibody - Protein Information

Name HDAC9

Synonyms HDAC7, HDAC7B, HDRP, KIAA0744, MITR

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. Represses MEF2-dependent transcription.

Cellular Location
Nucleus.

Tissue Location
Broadly expressed, with highest levels in brain, heart, muscle and testis. Isoform 3 is present in human bladder carcinoma cells (at protein level).

HDAC9 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

HDAC9 Antibody - Images

HDAC9 Antibody - Background

HDAC family members have been divided into two classes. Class I of the HDACs comprises four members, HDAC-1, 2, 3, and 8, each of which contains a deacetylase domain exhibiting from 45 to 93% identity in amino acid sequence. Class II of the HDACs comprises HDAC-4, 5, 6, and 7, the molecular weights of which are all about two-fold larger than those of the class I members, and the deacetylase domains are present within the C-terminal regions, except that HDAC-6 contains two copies of the domain, one within each of the N-terminal and C-terminal regions. Human HDAC-1, 2 and 3 were expressed in various tissues, but the others (HDAC-4, 5, 6, and 7) showed tissue-specific expression patterns.