For Research Use Only

HDAC5-specific Monoclonal antibody

Catalog Number:60157-1-Ig

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Basic Information

Catalog Number:
60157-1-Ig

Size:
500 μg/ml

Source:
Mouse

Isotype:
IgG1

GenBank Accession Number:
BC051824

GeneID (NCBI):
10014

UNIPROT ID:
Q9UQL6

Full Name:
histone deacetylase 5

Calculated MW:
122 kDa

Purification Method:
Caprylic acid/ammonium sulfate precipitation

CloneNo.:
2A8C6

Applications

Tested Applications:
ELISA

Species Specificity:
human

Background Information

Histone acetylation and deacetylation alternately exposes and occludes DNA to transcription factors. At least 4 classes of HDAC were identified. HDAC5 is a class II HDAC. HDAC5 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. HDAC5 is involved in muscle maturation by repressing transcription of myocyte enhancer MEF2C. During muscle differentiation, HDAC5 shuttles into the cytoplasm, allowing the expression of myocyte enhancer factors. This antibody is a mouse monoclonal antibody raised against a peptide mapping within human HDAC5.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

Selected Validation Data