

HDAC5 Monoclonal antibody

Catalog Number: 68437-1-Ig

Basic Information

Catalog Number:

68437-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG30557

GenBank Accession Number:

NM_005474

GeneID (NCBI):

10014

UNIPROT ID:

Q9UQL6

Full Name:

histone deacetylase 5

Calculated MW:

122 kDa

Observed MW:

140 kDa

Purification Method:

Protein A purification

CloneNo.:

1B9E6

Recommended Dilutions:

WB 1:2000-1:10000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

Human, mouse, rat

Positive Controls:**WB :** Saos-2 cells, COLO 320 cells, HeLa cells, T-47D cells, SK-BR-3 cells, A2780 cells, HepG2 cells, HSC-T6 cells, 4T1 cells

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.

Storage

Storage:

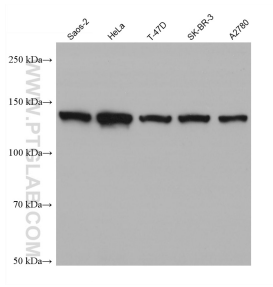
Store at -20°C. Stable for one year after shipment.

Storage Buffer:

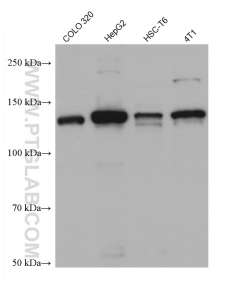
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68437-1-Ig (HDAC5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



COLO 320 cells were subjected to SDS PAGE followed by western blot with 68437-1-Ig (HDAC5 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.