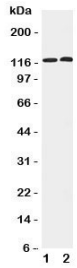
HDAC5 Antibody (R31301)

Catalog No.	Formulation	Size
R31301	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human, Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q9UQL6
Applications	Western blot: 0.5-1ug/ml
Limitations	This HDAC5 antibody is available for research use only.



Western blot testing of human 1) HeLa and 2) COLO320 cell lysate with HDAC5 antibody. Predicted molecular weight ~122 kDa, observed at 122-160 kDa.

Description

Histone deacetylase 5 is an enzyme that in humans is encodes by the HDAC5 gene. The protein encoded by this gene belongs to the class II histone deacetylase/acuc/apha family. This gene is mapped to 17q21.31. Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and affects transcription factor access to DNA. HDAC5 possesses histone deacetylase activity and represses transcription when tethered to a promoter. It coimmunoprecipitates only with HDAC3 family member and might form multicomplex proteins. It also interacts with myocyte enhancer factor-2(MEF2) proteins, resulting in repression of MEF2-dependent genes. This gene is though to be associated with colon cancer.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the HDAC5 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of human Histone deacetylase 5 (YKKLFSDAQPLQPLQVYQA) was used as the immunogen for this HDAC5 antibody.

Storage

After reconstitution, the HDAC5 antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.

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