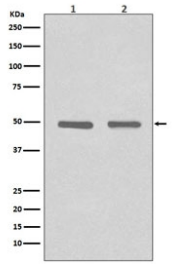
HDAC3 Antibody [clone EFH-8] (RQ4727)

Catalog No.	Formulation	Size
RQ4727	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Bulk quote request

Availability	1-2 weeks
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	EFH-8
Purity	Affinity purified
UniProt	O15379
Applications	Western blot: 1:1000-1:2000
Limitations	This HDAC3 antibody is available for research use only.



Western blot testing of 1) human HeLa and 2) mouse NIH3T3 cell lysate with HDAC3 antibody. Predicted molecular weight ~49 kDa.

Description

Histone deacetylase 3 is a member of the histone deacetylase/acuc/apha family of proteins and is an enzyme that in humans is encoded by the HDAC3 gene. The enzyme has histone deacetylase activity and represses transcription when tethered to a promoter. It may participate in the regulation of transcription through its binding with the zinc-finger transcription factor YY1. The protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. And this gene is regarded as a potential tumor suppressor gene. HDAC3 has an open reading frame of 428 amino acids and shares 53% amino acid identity with HDAC1 and 52% with HDAC2. The catalytic domain of HDAC4 interacts with

HDAC3 via the transcriptional corepressor NCOR2. All experimental conditions leading to the suppression of HDAC4 binding to NCOR2 and to HDAC3 resulted in loss of enzymatic activity associated with HDAC4.

Application Notes

Optimal dilution of the HDAC3 antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human HDAC3 was used as the immunogen for the HDAC3 antibody.

Storage

Store the HDAC3 antibody at -20oC.

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