Best Tools for immunology Research

HDAC3 mouse mAb

Catalog No :	YM1335
Reactivity :	Human;Mouse;Rat
Applications :	WB
Target :	HDAC3
Fields :	>>Neutrophil extracellular trap formation;>>Thyroid hormone signaling pathway;>>Alcoholism;>>Viral carcinogenesis
Gene Name :	hdac3
Human Gene Id :	8841
Human Swiss Prot No :	O15379
Mouse Swiss Prot No :	O88895
Immunogen :	Purified recombinant human HDAC3 protein fragments expressed in E.coli.
Specificity :	This antibody detects endogenous levels of HDAC3 and does not cross-react with related proteins.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	wb 1:1000
Purification :	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Observed Band :	49kD

Background : 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. The protein encoded by this gene belongs to the histone deacetylase/acuc/apha family. It 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. This protein can also down-regulate p53 function and thus modulate cell growth and apoptosis. This gene is regarded as a potential tumor suppressor gene. [provided by RefSeq, Jul 2008],

Function : catalytic activity:Hydrolysis of an N(6)-acetyl-lysine residue of a histone to yield a deacetylated histone.,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. Histone deacetylases act via the formation of large multiprotein complexes. Probably participates in the regulation of transcription through its binding to the zinc-finger transcription factor YY1; increases YY1 repression activity. Required to repress transcription of the POU1F1 transcription factor.,PTM:Sumoylated in vitro.,similarity:Belongs to the histone deacetylase family. Type 1 subfamily.,subunit:Interacts with HDAC7 and HDAC9. Forms a heterologous complex at least with YY1. Intera

Subcellular Location : Nucleus . Cytoplasm . Cytoplasm, cytosol . Colocalizes with XBP1 and AKT1 in the cytoplasm (PubMed:25190803). Predominantly expressed in the nucleus in the presence of CCAR2 (PubMed:21030595). .

Expression : Widely expressed.

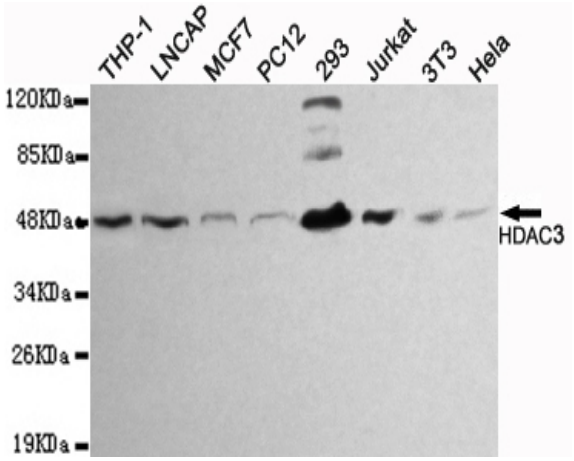
Sort : 7285

No4 : 1

Host : Mouse

Modifications : Unmodified

Products Images



Western blot detection of HDAC3 in THP-1,LNCAP,MCF7,PC12,293,Jurkat,3T3 and Hela cell lysates using HDAC3 mouse mAb (1:1000 diluted).Predicted band size:49KDa.Observed band size:49KDa.