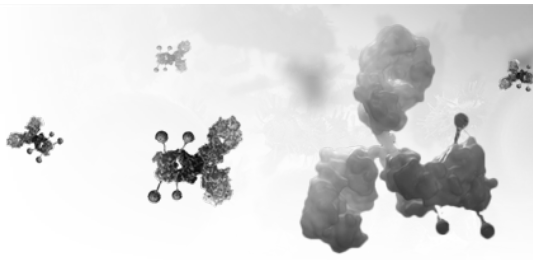

Mouse anti-Human HDAC9 monoclonal antibody, clone 3H21 (CABT-B10390)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Immunogen	HDAC9 (NP_478056, 481 a.a. ~ 571 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	3H21
Conjugate	Unconjugated
Applications	IF,sELISA,ELISA
Sequence Similarities	QIHMNKLLSKSIEQLKQPGSHLEEAEEELQGDQAMQEDRAPSSGNSTRSDSSACVDDTLG QVGAVKVKEEPVDSDEDAQIQEMESGEQAA*
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	Histones play a critical role in transcriptional regulation, cell cycle progression, and developmental events. Histone acetylation/deacetylation alters chromosome structure and

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	affects transcription factor access to DNA. The protein encoded by this gene has sequence homology to members of the histone deacetylase family. This gene is orthologous to the Xenopus and mouse MITR genes. The MITR protein lacks the histone deacetylase catalytic domain. It represses MEF2 activity through recruitment of multicomponent corepressor complexes that include CtBP and HDACs. This encoded protein may play a role in hematopoiesis. Multiple alternatively spliced transcripts have been described for this gene but the full-length nature of some of them has not been determined. [provided by RefSeq, Jul 2008]
Keywords	HDAC9; histone deacetylase 9; HD7; HD9; HD7b; HDAC; HDRP; MITR; HDAC7; HDAC7B; HDAC9B; HDAC9FL; histone deacetylase 7B; histone deacetylase 4/5-related protein; MEF-2 interacting transcription repressor (MITR) protein;

GENE INFORMATION

Entrez Gene ID	9734
UniProt ID	Q9UKV0
Pathway	MicroRNAs in cardiomyocyte hypertrophy, organism-specific biosystem; Signaling events mediated by HDAC Class I, organism-specific biosystem; Signaling events mediated by HDAC Class II, organism-specific biosystem
Function	NAD-dependent histone deacetylase activity (H3-K14 specific); NAD-dependent histone deacetylase activity (H3-K9 specific); NAD-dependent histone deacetylase activity (H4-K16 specific); histone deacetylase activity; NOT histone deacetylase activity; histone deacetylase activity (H3-K16 specific); histone deacetylase binding; histone deacetylase binding; hydrolase activity; protein binding; protein deacetylase activity; protein kinase C binding; repressing transcription factor binding; repressing transcription factor binding; repressing transcription factor binding; transcription corepressor activity; transcription factor binding; transcription factor binding

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