Datasheet for ABIN6141687

anti-HDAC7 antibody (AA 400-500)

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Overview

Quantity:	100 µL
Target:	HDAC7
Binding Specificity:	AA 400-500
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HDAC7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	A synthetic peptide corresponding to a sequence within amino acids 400-500 of human HDAC7 (NP_056216.2).
Sequence:	LPPSATAPPP PGPMQPRLEQ LKTHVQVIKR SAKPSEKPRL RQIPSAEDLE TDGGGPGQVV DDGLEHRELG HGQPEARGPA PLQQHPQVLL WEQQRLAGRL P
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	HDAC7
Alternative Name:	HDAC7 (HDAC7 Products)
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 has sequence homology to members of the histone deacetylase family. This gene is orthologous to mouse HDAC7 gene whose protein promotes repression mediated via the transcriptional corepressor SMRT. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.,HDAC7,HD7,HD7A,HDAC7A,Epigenetics & Nuclear Signaling,Nuclear Receptor Signaling,Signal Transduction,Cell Biology & Developmental Biology,Cell Cycle,G1/S Checkpoint,Notch Signaling Pathway,Wnt/β-Catenin Signaling Pathway,Immunology & Inflammation,NF-kB Signaling Pathway,Stem Cells,Cardiovascular,Heart,Hypertrophy,HDAC7
Molecular Weight:	46-66 kDa/99-108 kDa
Gene ID:	51564
UniProt:	Q8WUI4
Pathways:	Regulation of Muscle Cell Differentiation, Cell-Cell Junction Organization, Skeletal Muscle Fiber Development

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:100
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

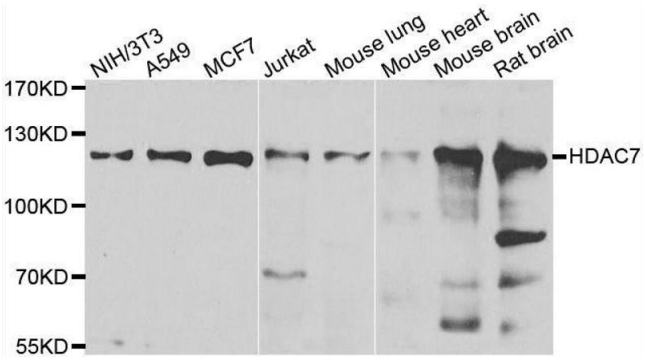
Handling

Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Publications

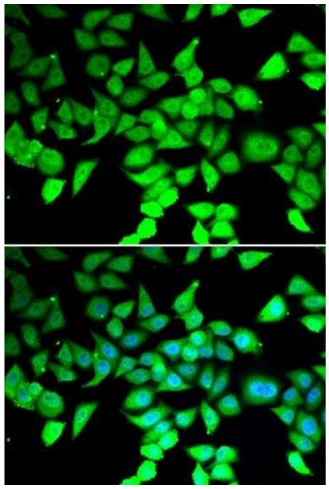
Product cited in:	Liu, Chen, Pei, Zhang, Zou, Xiao, Zhou, Chen, Wang: "Decreased H3K9ac level of StAR mediated testicular dysplasia induced by prenatal dexamethasone exposure in male offspring rats." in: **Toxicology**, Vol. 408, pp. 1-10, (2018) (PubMed).

Images



Western Blotting

Image 1. Western blot analysis of extracts of various cell lines, using HDAC7 antibody.



Immunofluorescence

Image 2. Immunofluorescence analysis of MCF-7 cells using HDAC7 antibody.