Datasheet for ABIN2668768

anti-HDAC1 antibody (AA 1-5)

3 Images | 1 Publication

Go to Product page

Overview

Quantity:	100 µg
Target:	HDAC1
Binding Specificity:	AA 1-5
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This HDAC1 antibody is un-conjugated
Application:	Western Blotting (WB), Chromatin Immunoprecipitation (ChIP), ChIP DNA-Sequencing (ChIP-seq), Cleavage Under Targets and Release Using Nuclease (CUT&RUN)

Product Details

Immunogen:	This HDAC1 antibody was raised against a mixture of synthetic peptides corresponding to amino acid residues 1-5, 433-448 and 467-482 of human HDAC1.
Isotype:	IgG
Purification:	Affinity Purified

Target Details

Target:	HDAC1
Alternative Name:	HDAC1 (HDAC1 Products)
Molecular Weight:	60 kDa

Target Details

Gene ID:	3065
Pathways:	Neurotrophin Signaling Pathway, Intracellular Steroid Hormone Receptor Signaling Pathway, Regulation of Intracellular Steroid Hormone Receptor Signaling, Mitotic G1-G1/S Phases, Regulation of Muscle Cell Differentiation, Skeletal Muscle Fiber Development, Negative Regulation of intrinsic apoptotic Signaling, Embryonic Body Morphogenesis

Application Details

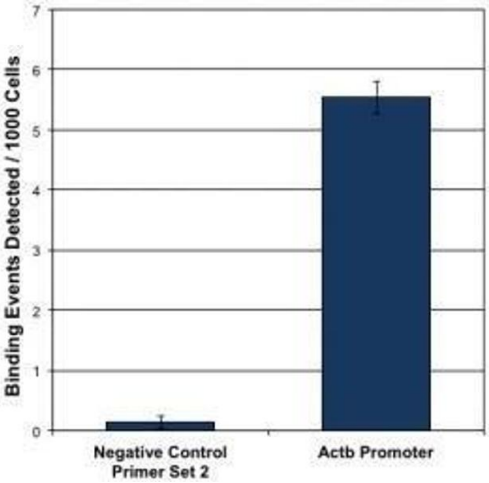
Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

Handling

Concentration:	0.5 µg/µL
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze/thaw cycles and keep on ice when not in storage.
Storage:	-80 °C
Storage Comment:	Antibodies in solution can be stored at -80 °C for 2 years.
Expiry Date:	6 months

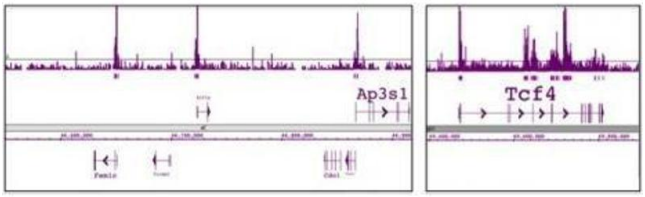
Publications

Product cited in:	Xiong, Svingen, Sarmento, Smyrk, Dave, Khanna, Lomberk, Urrutia, Faubion: "Differential coupling of KLF10 to Sin3-HDAC and PCAF regulates the inducibility of the FOXP3 gene." in: **American journal of physiology. Regulatory, integrative and comparative physiology**, Vol. 307 , Issue 6, pp. R608-20, (2014) (PubMed).



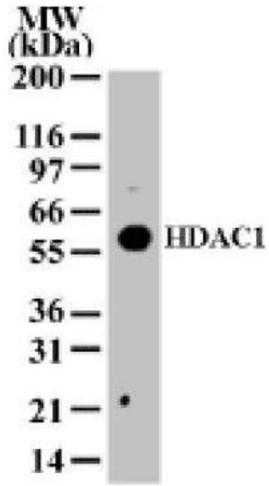
Chromatin Immunoprecipitation

Image 1. HDAC1 pAb tested by ChIP-qPCR. Chromatin immunoprecipitation (ChIP) was performed using the ChIP-IT® High Sensitivity Kit (Cat. No. 53040) with 20 µg of rat brain chromatin and 4 µg of HDAC1 antibody. ChIP DNA was used in qPCR with the negative control primer pairs and primers that amplify the Actb promoter. Data are presented as Binding Events Detected per 1000 Cells using Active Motif's Epigenetic Services normalization scheme which accounts for primer efficiency and the amount of chromatin used in the ChIP reaction.



Chromatin Immunoprecipitation

Image 2. HDAC1 pAb tested by ChIP-Chip. ChIP was performed using the ChIP-IT® High Sensitivity Kit (Cat. No. 53040) with 30 ug of mouse hippocampus chromatin and 4 ug of HDAC1 antibody. ChIP DNA was amplified by WGA, labeled and hybridized to a mouse tiling array. The left side of the image shows HDAC1 binding at multiple promoters. The right side of the image shows HDAC1 binding spread broadly across the Tcf4 gene.



Western Blotting

Image 3. HDAC1 pAb tested by Western blot. Detection of HDAC1 by Western blot analysis. 293 nuclear extract was probed with HDAC1 pAb. A protein band of approximate molecular weight of 60 kDa was detected.