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antibody and ELISA experts

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Anti-HDAC2 PTGER2 Antibody (Monoclonal)

Catalog Number: CI1000

About PTGER2

HDAC2 belongs to the family of histone deacetylases which catalyse the deacetylation of lysine residues on the N-terminal part of the core histones (H2A, H2B, H3 and H4). Acetylation and deacetylation of these highly conserved lysine residues is important for the control of gene expression and HDAC2 activity is associated with gene repression. Histone deacetylation is established by the formation of large multiprotein complexes. Thereby, HDAC2 associates with many different proteins, including the mammalian zinc-finger transcription factor YY1. HDAC2 thus plays an important role in transcriptional regulation, cell cycle progression and developmental events.

Overview

Product Name	Anti-HDAC2 PTGER2 Antibody (Monoclonal)
Reactive Species	Human
Description	Boster Bio Anti-HDAC2 PTGER2 Antibody (Monoclonal) catalog # CI1000. Tested in ChIP, ChIP-qPCR, ChIP-seq, IF applications. This antibody reacts with Human.
Application	ChIP, ChIP-qPCR, ChIP-seq, IF
Clonality	Monoclonal
Formulation	Protein A purified monoclonal antibody in PBS containing 0.05% azide and 0.05% ProClin 300.
Storage Instructions	Store at -20°C for one year. For short term storage and frequent use, store at 4°C for up to one month. Avoid repeated freeze-thaw cycles.
Host	Mouse
Uniprot ID	P43116

Technical Details

Immunogen	This antibody is raised in mouse against human HDAC2 (Histone deacetylase 2), using a KLH-conjugated synthetic peptide containing a sequence from the C-terminal region of the protein.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Mouse IgG (EK1001) for Western blot. Boster recommends high sensitivity ChIP-seq Kit (CK1001 & CK1002) for Chromatin Immunoprecipitation.
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Protein A purified
Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this

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	kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: User need to optimize the dilution ratio for this antibody

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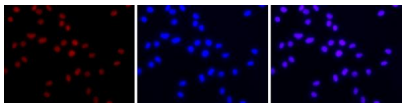
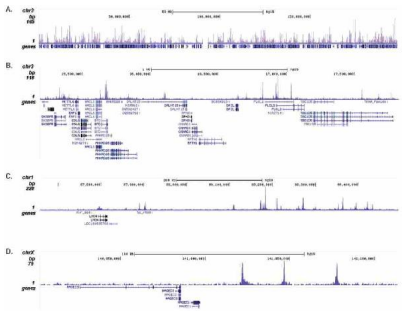
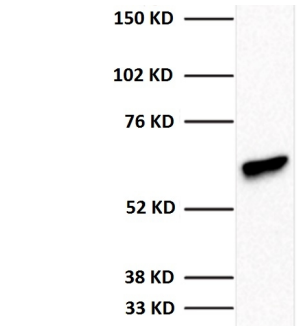
Anti-HDAC2 PTGER2 Antibody (Monoclonal) (CI1000) Images



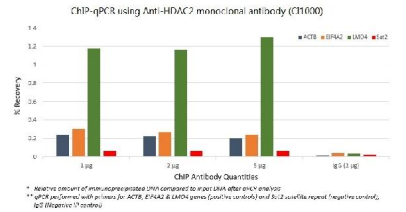
Immunofluorescence images stained on HeLa cells: (Left) Cells stained with anti-HDAC2 monoclonal antibody (Catalog # CI1000) at 1/500 dilution. (Middle) Nuclei stained with DAPI. (Right) Merged images of two stains from the left and middle.



ChIP-seq data generated on Illumina HiSeq platform and analyzed with the BWA algorithm which aligns 51 bp tags to the mouse genome. Figures A and B show the enrichment along the complete sequence and a 2 Mb region of human chromosome 3. Two genomic regions surrounding the LMO4 positive control gene and the MAGEC1 gene are shown in Figures C and D, respectively.



WB result using whole cell extracts from HeLa Cells (25 ug) and 1:1,000 antibody dilution. Predicted band size: 55 KD. Observed band size: 55 KD.



ChIP-qPCR data (% Recovery) with Anti-HDAC2 monoclonal antibody, optimized qPCR primers and sheared chromatin from 4 million human HeLa cells.

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