

Anti-HDAC8 Antibody Picoband®

Catalog Number: A01843-1

About HDAC8

HDAC8, Histone deacetylase 8, is an enzyme that in humans is encoded by the HDAC8 gene, and is biologically involved in skull morphogenesis and metabolic control of the ERR- α /PGC1- α transcriptional complex. Sequence analysis predicted that the 377-amino acid HDAC8 protein contains the 9 conserved HDAC blocks that are presumably important for catalytic function. HDAC8 shares 54% sequence similarity with HDAC1 and HDAC2 and 39% similarity with HDAC3, making it a class I HDAC. 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 class I of the histone deacetylase/acuc/apha family. It has histone deacetylase activity and represses transcription when tethered to a promoter.

Overview

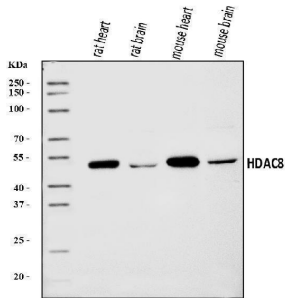
Product Name	Anti-HDAC8 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-HDAC8 Antibody Picoband® catalog # A01843-1. Tested in ELISA, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Application	ELISA, WB
Clonality	Polyclonal
Formulation	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Storage Instructions	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.
Host	Rabbit
Uniprot ID	Q9BY41

Technical Details

Immunogen	E.coli-derived human HDAC8 recombinant protein (Position: D29-E347).
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western blot.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Rabbit IgG

Form	Lyophilized
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Purification	Immunogen affinity purified.
Suggested Dilutions	Western blot, 0.25-0.5 ug/ml, Mouse, Rat ELISA, 0.1-0.5 ug/ml, -

Anti-HDAC8 Antibody Picoband® (A01843-1) Images



Western blot analysis of HDAC8 using anti-HDAC8 antibody (A01843-1). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat heart tissue lysates, Lane 2: rat brain tissue lysates, Lane 3: mouse heart tissue lysates, Lane 4: mouse brain tissue lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-HDAC8 antigen affinity purified polyclonal antibody (Catalog # A01843-1) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for HDAC8 at approximately 50 kDa. The expected band size for HDAC8 is at 42 kDa.

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Anti-HDAC8 Antibody

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