

## Anti-Histone deacetylase 8 HDAC8 Antibody Picoband®

Catalog Number: PA1591

### 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- $\alpha$ /PGC1- $\alpha$  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

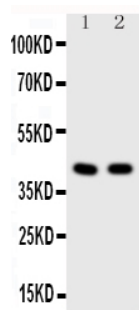
Product Name	Anti-Histone deacetylase 8 HDAC8 Antibody Picoband®
Reactive Species	Human, Mouse, Rat
Description	Boster Bio Anti-Histone deacetylase 8 HDAC8 Antibody catalog # PA1591. Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium 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	IHC, WB
Clonality	Polyclonal
Formulation	Each vial contains antibody formulated with stabilizing components, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg Thimerosal, 0.05mg NaN <sub>3</sub> . *This antibody is supplied in a stabilized formulation. Compatibility with conjugation reactions depends on the chemistry of the conjugation method used. For conjugation methods that are not compatible with the stabilizing components present in this formulation, a carrier-free antibody format is required.
Storage Instructions	Store 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 freeze-thaw cycles.
Host	Rabbit
Uniprot ID	Q9BY41

### Technical Details

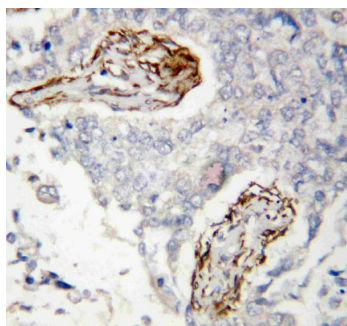
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human HDAC8, different from the related mouse and rat sequences by two amino acids.
Recommended Detection Systems	Boster recommends Enhanced Chemiluminescent Kit with anti-Rabbit IgG (EK1002) for Western

	blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit (SV0002-1) for IHC(P).
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	Immunohistochemistry (Paraffin-embedded Section), 0.5-1ug/ml, Human, Rat, Mouse Western blot, 0.1-0.5ug/ml, Human, Rat, Mouse

## Anti-Histone deacetylase 8 HDAC8 Antibody Picoband® (PA1591) Images



Anti-HDAC8 antibody, PA1591, Western blotting All lanes:  
Anti HDAC8 (PA1591) at 0.5ug/ml Lane 1: Rat Cardiac  
Muscle: Tissue Lysate at 50ug Lane 2: A549 Whole Cell  
Lysate at 40ug Predicted bind size: 42KD Observed bind  
size: 42KD



Anti-HDAC8 antibody, PA1591, IHC(P)IHC(P): Human Lung  
Cancer Tissue

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