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3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-Phospho-HDAC2 (Ser394) Antibody

Catalog Number: P00325

About HDAC2

Histone Deacetylase 2 (HDAC2) is part of a family of histone deacetylases that are responsible for deacetylation of lysine residues in the histone core. HDAC2 is classified as a class I histone deacetylase and is ubiquitously expressed throughout the body (Kee et al, 2008). It has been shown that HDAC2 plays an important role in cardiac hypertrophy (Eom et al, 2011). Phosphorylation of Ser-394 is responsible for the hypertrophy-associated activation of HDAC2, whereas intrinsic basal activity is maintained by phosphorylation of Ser-422 and Ser-424 (EOM et al, 2011).

Overview

Product Name	Anti-Phospho-HDAC2 (Ser394) Antibody
Reactive Species	Mouse, Rat
Description	Boster Bio Anti-Phospho-HDAC2 (Ser394) Antibody (Catalog # P00325). Tested in WB applications. This antibody reacts with Mouse, Rat.
Application	WB
Clonality	Polyclonal
Formulation	10 mM HEPES (pH 7.5), 150 mM NaCl, 100 µg per ml BSA and 50% glycerol.
Storage Instructions	Storage at -20°C is recommended, as aliquots may be taken without freeze/thawing due to presence of 50% glycerol. Stable for at least 1 year at -20°C. After date of receipt, stable for at least 1 year at -20°C.
Host	Rabbit
Uniprot ID	Q92769

Technical Details

Immunogen	Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser394 of human HDAC2, conjugated to keyhole limpet hemocyanin (KLH). Immunogen species is Human.
Predicted Reactive Species	Bovine, Chicken, Guinea Pig, Human, Primate, Sheep
Isotype	IgG
Form	Liquid
Concentration	0.5-1mg/ml, actual concentration vary by lot. Use suggested dilution ratio to decide dilution procedure.
Purification	Prepared from pooled rabbit serum by affinity purification via sequential chromatography on phospho and non-phosphopeptide affinity columns.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this 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: WB: 1:1000

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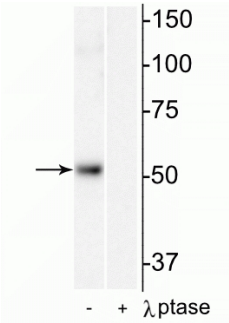
Anti-Phospho-HDAC2 (Ser394) Antibody (P00325) Images



Western blot of mouse heart lysate showing specific immunolabeling of the ~55 kDa HDAC2 protein phosphorylated at Ser^{394} in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by blot treatment with lambda phosphatase (gamma-Ptase, 1200 units for 30 min).

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