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www.rockland.com
tech@rockland.com
+1 484.791.3823

Datasheet for 600-401-X11

HDAC2 Phospho S394 Antibody

Overview

Description:	Anti-HDAC2 pS394 (RABBIT) Antibody - 600-401-X11
Item No.:	600-401-X11
Size:	100 µL
Applications:	WB
Reactivity:	Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	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. It has been shown that HDAC2 plays an important role in cardiac hypertrophy. Phosphorylation of ser394 is responsible for the hypertrophy-associated activation of HDAC2, whereas intrinsic basal activity is maintained by phosphorylation of ser422 and ser424. HDAC2 pS394 Antibody is ideal for researchers interested in neuroscience research.
Synonyms:	Histone Deacetylase 2, HD2
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	HDAC2
Reactivity:	Mouse, Rat
PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Phospho-Ser394 HDAC2 Antibody was produced in rabbits by repeated immunizations with a phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser394 of human HDAC2.
Purity/Specificity:	Anti-Phospho-Ser394 HDAC2 Antibody is directed against HDAC2 protein phosphorylated at S394. The antibody was prepared from monospecific antiserum by immunoaffinity chromatography using phospho peptide coupled to agarose beads followed by solid phase adsorption(s) against non-phospho peptide and non-specific peptide to remove any unwanted reactivities. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Rabbit Serum. This antibody is specific for phosphorylated HDAC2. Minimal reactivity occurs against non-phosphorylated HDAC2. Reactivity is completely blocked by treatment with lambda-phosphatase. Cross reactivity is expected against bovine, chicken, guinea pig, human, non-human primates, rat, and sheep.
Relevant Links:	• UniProtKB - Q92769 • GeneID - 3066 • NCBI - NP_001518.3

Application Details

Tested Applications:	WB
Application Note:	Anti-Phospho-Ser394 HDAC2 Antibody has been tested by Western Blots and is specific for the ~55 kDa HDAC2 protein phosphorylated at Ser394 in Western blots. Immunolabeling is completely blocked by lambda-Phosphatase treatment (30 minutes, 800units/1mg protein). Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

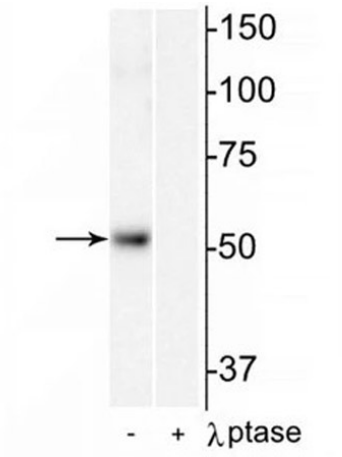
Formulation

Physical State:	Liquid (sterile filtered)
Buffer:	0.01 M HEPES, 0.15 M Sodium Chloride, pH 7.5
Preservative:	None
Stabilizer:	0.1 mg/ml Bovine Serum Albumin (BSA) - IgG and Protease free, 50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at -20° C prior to opening in undiluted aliquots. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot
Western blot of anti-HDAC2 pS394 antibody.
Mouse heart lysate showing specific immunolabeling of the ~55 kDa HDAC2 protein phosphorylated at Ser394 in the first lane (-). Phosphospecificity is shown in the second lane (+) where immunolabeling is completely eliminated by blot treatment with lambda phosphatase (λ-Ptase, 1200 units for 30 min).

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