

Phospho-Ser394 HDAC2 Antibody
Affinity purified rabbit polyclonal antibody
Catalog # AN1247

Specification

Phospho-Ser394 HDAC2 Antibody - Product Information

Application	WB
Primary Accession	Q92769
Reactivity	Mouse
Predicted	Bovine, Chicken, Human, Pig, Monkey, Rat
Host	Rabbit
Clonality	polyclonal

Phospho-Ser394 HDAC2 Antibody - Additional Information

Gene ID	3066
Gene Name	HDAC2
Other Names	
Histone deacetylase 2, HD2, HDAC2	

Target/Specificity

Phosphopeptide corresponding to amino acid residues surrounding the phospho-Ser394 of human HDAC2.

Dilution

WB~~ 1:1000

Format

Prepared from rabbit serum by affinity purification via sequential chromatography on dephosphopeptide and phosphopeptide affinity columns.

Antibody Specificity

Specific for the ~55k HDAC2 protein phosphorylated at Ser394 in Western blots. Immunolabeling is completely blocked by λ-Phosphatase treatment (30 minutes, 800 units/mg protein).

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-Ser394 HDAC2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Shipping

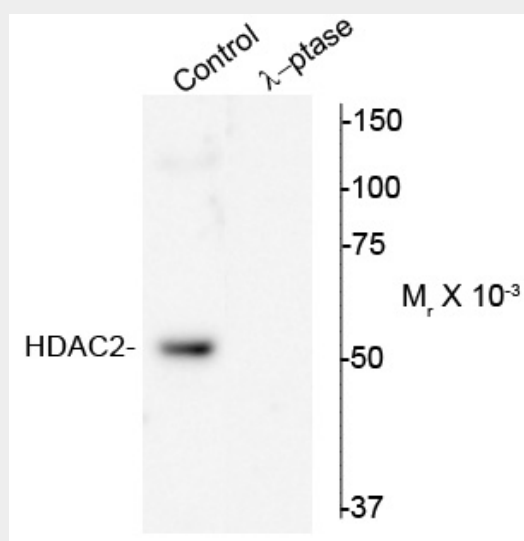
Blue Ice

Phospho-Ser394 HDAC2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-Ser394 HDAC2 Antibody - Images



Western blot of mouse heart lysate showing specific immunolabeling of the ~55k HDAC2 protein phosphorylated at Ser394 (control). Phosphospecificity is shown in the second lane (lambda-phosphatase: λ-Ptase). The blot is identical to the control except that the lysate was incubated in λ-Ptase (800 units/1mg protein for 30 min). The immunolabeling is completely eliminated by treatment with λ-Ptase.

Phospho-Ser394 HDAC2 Antibody - 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 (Kee et al, 2008). It has been shown that HDAC2 plays an important role in cardiac hypertrophy (Eom et al, 2011). Phosphorylation of ser394 is responsible for the hypertrophy-associated activation of HDAC2, whereas intrinsic basal activity is maintained by phosphorylation of ser422 and ser424 (EOM et al, 2011).

Phospho-Ser394 HDAC2 Antibody - References

Kee HJ, Eom GH, Joung H, Shin S, Kim JR Cho YK, Choe N, Sim BW, Jo D, Jeong MH, Kim KK, Seo JS, Kook H (2008) Activation of histone deacetylase 2 by inducible heat shock protein 70 in cardiac hypertrophy. *Cir Res* 2008 Nov 21;103(11):1259-69.

Eom GH, Cho YK, Ko JH, Shin S, Choe N, Kim Y, Joung H, Kim HS, Nam KI, Kee HJ, Kook H (2011) Casein Kinase-2α1 Induces Hypertrophic Response by Phosphorylation of Histone Deacetylase 2 S394 and its activation in the Heart Clinical Perspective. *Circulation* May16, 2011;123:2392-2403.