

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

**Specification**

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**Phospho-Ser394 HDAC2 Antibody - Product Information**

|                   |  |
|-------------------|--|
| Application       | WB                                       |
| Primary Accession | <a href="#">O92769</a>                   |
| 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 |
| <b>Other Names</b>                |       |
| 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  $\lambda$ -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**

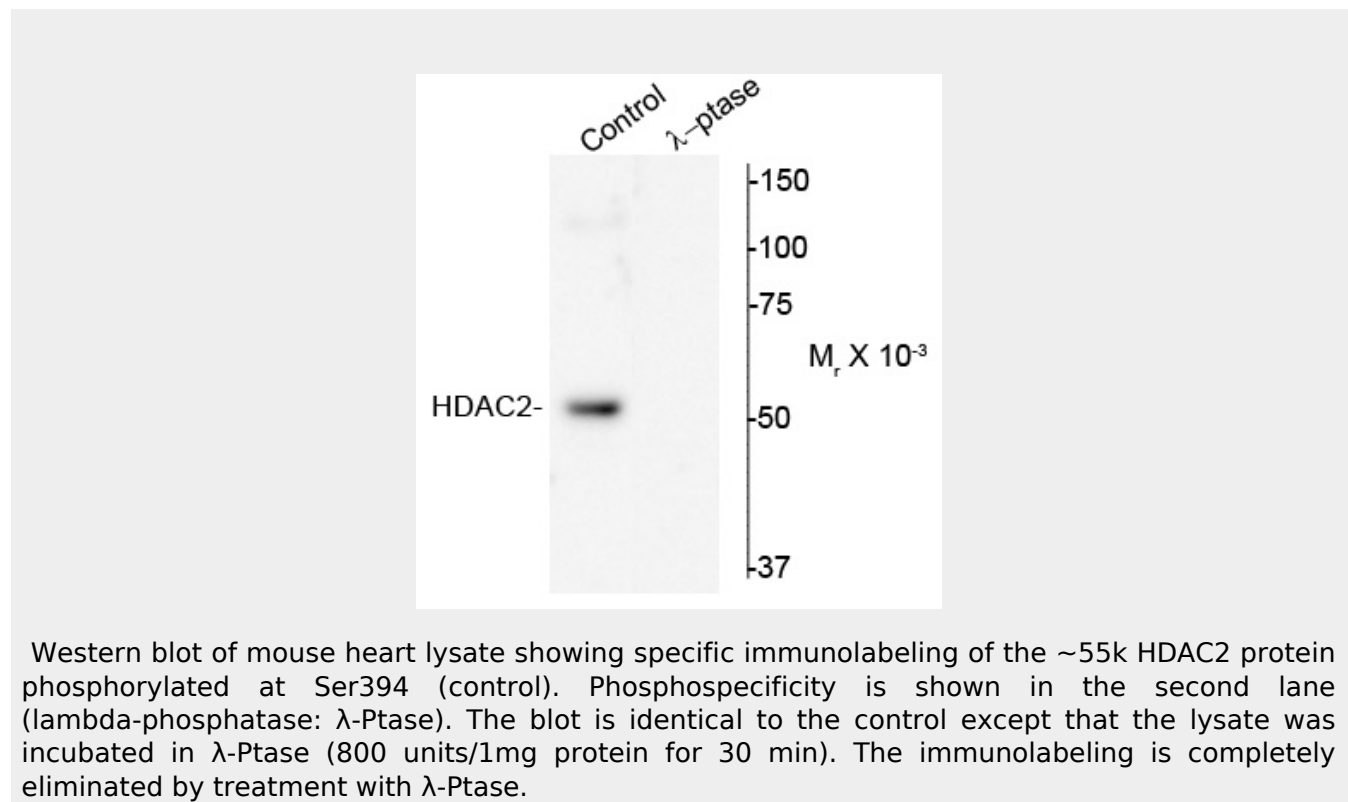
Blue Ice

**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



### 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-2 $\alpha$ 1 Induces Hypertrophic Respose by Phosphorylation of Histone Deacetylase 2 S394 and its activation in the Heart Clinical Perspective. *Circulation* May16, 2011;123:2392-2403.