

ARG52324 anti-HDAC2 phospho (Ser394) antibody

Package: 50 μl Store at: -20°C

Summary

| Product Description | Rabbit Polyclonal antibody recognizes HDAC2 phospho (Ser394) |
|---------------------|---|
| Tested Reactivity | Ms |
| Predict Reactivity | Hu, Rat, Bov, Chk, Gpig, NHuPrm, Sheep |
| Tested Application | WB |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | lgG |
| Target Name | HDAC2 |
| Species | Human |
| Immunogen | Synthetic phospho-peptide corresponding to amino acid residues surrounding Ser394 conjugated to KLH |
| Conjugation | Un-conjugated |
| Alternate Names | Histone deacetylase 2; EC 3.5.1.98; HD2; YAF1; RPD3 |
| | |

Application Instructions

| Application table | Application | Dilution |
|-------------------|---|---|
| | WB | 1:1,000 |
| Application Note | completely blocked by λ -Phosph | otein phosphorylated at Ser394 in Western blots. Immunolabeling is natase treatment (30 minutes, 800units/1mg protein). nended starting dilutions and the optimal dilutions or concentrations ientist. |

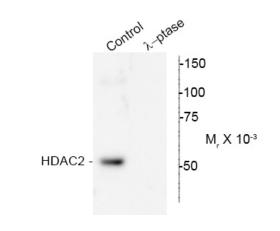
Properties

| Form | Liquid |
|---------------------|---|
| Purification | Affinity Purified |
| Buffer | 10 mM HEPES (pH 7.5), 150 mM NaCl, 0.1 mg/ml BSA and 50% Glycerol |
| Stabilizer | 0.1 mg/ml BSA, 50% Glycerol |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

| Database links | GeneID: 15182 Mouse |
|----------------|--|
| | Swiss-port # P70288 Mouse |
| Gene Symbol | HDAC2 |
| Gene Full Name | histone deacetylase 2 |
| 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). |
| Research Area | Cell Biology and Cellular Response antibody; Developmental Biology antibody; Gene Regulation antibody; Signaling Transduction antibody |
| Calculated Mw | 55 kDa |
| ΡΤΜ | S-nitrosylated by GAPDH. In neurons, S-Nitrosylation at Cys-262 and Cys-274 does not affect the enzyme activity but abolishes chromatin-binding, leading to increases acetylation of histones and activate genes that are associated with neuronal development. In embryonic cortical neurons, S-Nitrosylation regulates dendritic growth and branching. S-Nitrosylation interferes with its interaction with MTA1 (By similarity). |

Images



ARG52324 anti-HDAC2 phospho (Ser394) antibody WB image

Western blot: Mouse heart lysate showing specific immunolabeling of the ~55k HDAC2 protein phosphorylated at Ser 394 (control) stained with ARG52324 anti-HDAC2 phospho (Ser394) antibody. 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.