

# Product datasheet

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# ARG51687 anti-HDAC4 phospho (Ser632) antibody

Package: 100 μl, 50 μl Store at: -20°C

#### **Summary**

Product Description Rabbit Polyclonal antibody recognizes HDAC4 phospho (Ser632)

Tested Reactivity Hu, Ms, Rat

Tested Application WB

Host Rabbit

**Clonality** Polyclonal

Isotype IgG

Target Name HDAC4

Species Human

Immunogen Peptide sequence around phosphorylation site of serine 632 (A-Q-S(p)-S-P) derived from Human

HDAC4.

Conjugation Un-conjugated

Alternate Names HD4; BDMR; HDAC-A; HDACA; EC 3.5.1.98; HDAC-4; HA6116; Histone deacetylase 4; AHO3

# **Application Instructions**

Application table	Application	Dilution
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

## **Properties**

Form Liquid

Purification Antibodies were produced by immunizing rabbits with KLH-conjugated synthetic phosphopeptide.

Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. In addition, non-phospho specific antibodies were removed by chromatogramphy using non-

phosphopeptide.

Buffer PBS (without Mg2+ and Ca2+, pH 7.4), 150mM NaCl, 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Concentration 1 mg/ml

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.

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#### Bioinformation

Gene Symbol HDAC4

Gene Full Name histone deacetylase 4

Background Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A,

H2B, H3 and H4). Histone deacetylation gives a tag for epigenetic repression and plays an important role in transcriptional regulation, cell cycle progression and developmental events. Histone deacetylases act via the formation of large multiprotein complexes. Involved in muscle maturation via its interaction with

the myocyte enhancer factors such as MEF2A, MEF2C and MEF2D.

Function Responsible for the deacetylation of lysine residues on the N-terminal part of the core histones (H2A,

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epigenetic regulation of ESR1 expression in breast cancer. [UniProt]

Research Area Cell Biology and Cellular Response antibody; Developmental Biology antibody; Gene Regulation antibody;

Signaling Transduction antibody

Calculated Mw 119 kDa

PTM Phosphorylated by CaMK4 at Ser-246, Ser-467 and Ser-632. Phosphorylation at other residues by CaMK2D

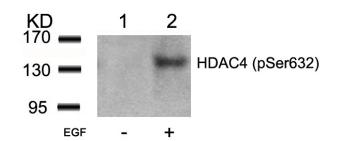
is required for the interaction with 14-3-3. Phosphorylation at Ser-350, within the PxLPxI/L motif, impairs

the binding of ANKRA2 but generates a high-affinity docking site for 14-3-3.

Sumoylation on Lys-559 is promoted by the E3 SUMO-protein ligase RANBP2, and prevented by

phosphorylation by CaMK4.

### **Images**



#### ARG51687 anti-HDAC4 phospho (Ser632) antibody WB image

Western blot: Extracts from 293 cells untreated(lane 1) or treated with EGF(lane 2) stained with ARG51687 anti-HDAC4 phospho (Ser632) antibody.