

Datasheet: AHP2633

Description:	RABBIT ANTI HISTONE DEACETYLASE 5 (pSer498)
Specificity:	HISTONE DEACETYLASE 5 (pSer498)
Format:	Purified
Product Type:	Polyclonal Antibody
Isotype:	Polyclonal IgG
Quantity:	50 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Paraffin	▪			1/50 - 1/100
Western Blotting	▪			1/500 - 1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Species Cross Reactivity	Based on sequence similarity, is expected to react with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid
Antiserum Preparation	Antiserum to histone deacetylase 5 (pSer498) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.
Buffer Solution	Phosphate buffered saline
Preservative	0.02% Sodium Azide
Stabilisers	50% Glycerol
Immunogen	Phospho specific-peptide corresponding to residues surrounding serine 498 of human histone deacetylase 5
External Database Links	<p>UniProt: Q9UQL6 Related reagents</p> <p>Entrez Gene: 10014 HDAC5 Related reagents</p>

Synonyms KIAA0600

Specificity **Rabbit anti Histone deacetylase 5 (pSer498) antibody** recognizes histone deacetylase 5, also known as HDAC5, when phosphorylated at serine 498. Histone deacetylases are chromatin-modifying enzymes that are involved in regulation of many aspects of cell biology including tissue differentiation, autophagy, apoptosis, migration, mitosis and angiogenesis. Histone deacetylase 5 is a class II histone deacetylase, which shuttles back and forth between nucleus and cytoplasm.

Histone deacetylase 5 is phosphorylated at serine 498 by Protein kinase D (PKD) and Calcium/calmodulin-dependent protein kinase (CaMK) ([McKinsey et al. 2000](#), [Ha et al. 2008](#)).

Further Reading

1. McKinsey, T.A. *et al.* (2000) Signal-dependent nuclear export of a histone deacetylase regulates muscle differentiation. [Nature. 408 \(6808\): 106-11.](#)
2. Ha, C.H. *et al.* (2008) Protein kinase D-dependent phosphorylation and nuclear export of histone deacetylase 5 mediates vascular endothelial growth factor-induced gene expression and angiogenesis. [J Biol Chem. 283 \(21\): 14590-9.](#)

Storage Store at -20°C
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #10049 available at:
10049: <https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)
Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@680](#), [DyLight@800](#)

Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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