



Datasheet for ABIN2668880

anti-Histone H4 antibody (acLys16)

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Overview

| | |
|----------------------|--|
| Quantity: | 100 µL |
| Target: | Histone H4 |
| Binding Specificity: | acLys16 |
| Reactivity: | Human, Saccharomyces cerevisiae, Drosophila melanogaster |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Application: | Western Blotting (WB), Chromatin Immunoprecipitation (ChIP), Dot Blot (DB), ChIP DNA-Sequencing (ChIP-seq) |

Product Details

| | |
|---------------|--|
| Immunogen: | This Histone H4 acetylLys16 antibody was raised against a peptide including acetyllysine 16 of histone H4. |
| Purification: | None |

Target Details

| | |
|-------------------|-------------------------------------|
| Target: | Histone H4 |
| Abstract: | Histone H4 Products |
| Molecular Weight: | 8 kDa |
| Gene ID: | 121504 |

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freeze/thaw cycles and keep on ice when not in storage.

Storage: -20 °C

Storage Comment: Antibodies in solution can be stored at -20 °C for 2 years.

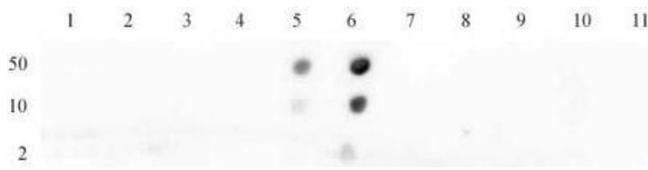
Expiry Date: 6 months

Publications

Product cited in: Teo, Ingale, Wolfert, Elsayed, Nöt, Chatham, Wells, Boons: "Glycopeptide-specific monoclonal antibodies suggest new roles for O-GlcNAc." in: **Nature chemical biology**, Vol. 6, Issue 5, pp. 338-43, (2010) ([PubMed](#)).

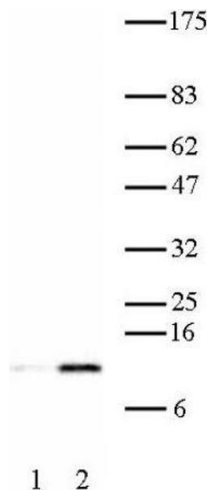
Comer, Vosseller, Wells, Accavitti, Hart: "Characterization of a mouse monoclonal antibody specific for O-linked N-acetylglucosamine." in: **Analytical biochemistry**, Vol. 293, Issue 2, pp. 169-77, (2001) ([PubMed](#)).

There are more publications referencing this product on: [Product page](#)



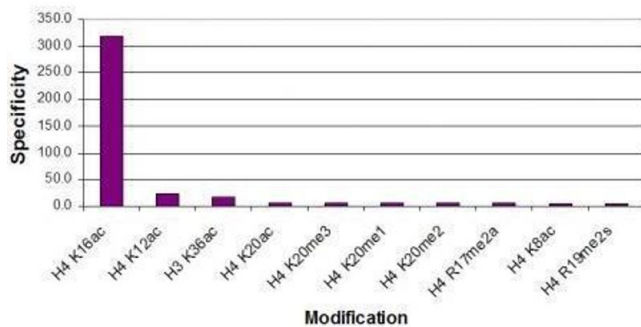
Dot Blot

Image 1. Histone H4K16ac antibody (pAb) tested by dot blot analysis. Dot blot analysis was used to confirm the specificity of Histone H4 acetyl Lys16 pAb for histone H4 acetyl Lys16. Acetylated peptides corresponding to the immunogen and related H4 sequences were spotted onto PVDF and probed with the antibody at 1:1,000. The amount of peptide (picomoles) spotted is indicated next to each row. Lane 1: Unmodified Lys8 peptide. Lane 2: Acetyl Lys5 peptide. Lane 3: Acetyl Lys8 peptide. Lane 4: Acetyl Lys12 peptide. Lane 5: Unmodified Lys16 peptide. Lane 6: Acetyl Lys16 peptide. Lane 7: Acetyl Lys20 peptide. Lane 8: Unmodified Lys31 peptide. Lane 9: Acetyl Lys31 peptide. Lane 10: Acetyl Lys59 peptide. Lane 11: Acetyl Lys91 peptide.



Western Blotting

Image 2. Histone H4K16ac antibody (pAb) tested by Western blot. HeLa nuclear extract (20 µg) probed with Histone H4 acetyl Lys16 polyclonal antibody (1:1,000 dilution). Lane 1: No treatment. Lane 2: Cells treated with sodium butyrate.



Chromatin Immunoprecipitation

Image 3. Histone H4K16ac antibody (pAb) specificity tested by peptide array analysis. Peptide array analysis was used to confirm the specificity of this antibody for its intended modification. Histone H4 acetyl Lys16 antibody was applied at a dilution of 1:10,000 to Active Motif's MODified™ Histone Peptide Array (Catalog No. 13001). The arrays were scanned with ArrayAnalysis Software 7 and the results plotted. Specificity data is shown for the most reactive

peptides and those related to the immunogen. In the array, the acetyl Lys16 modification is found on peptides with two different backbone sequences (H4 amino acids 1-19 and amino acids 11-30) so reactive and related peptides for both peptides is shown. Array Data File

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2668880.