

HRP Anti-acetyl Lysine antibody ab23364

2 References

Overview

Product name	HRP Anti-acetyl Lysine antibody
Description	HRP Rabbit polyclonal to acetyl Lysine
Host species	Rabbit
Conjugation	HRP
Specificity	This antibody recognizes proteins acetylated on lysine residues. Tested: acetylated histone, acetylated BSA, and acetylated MBP, no reaction to the non-acetylated proteins.
Tested applications	Suitable for: ELISA, WB
Species reactivity	Reacts with: Species independent
Immunogen	Acetylated KLH conjugates.
General notes	<p>The purified antibody was conjugated to horse radish peroxidase (HRP) via reductive amination. Direct label of primary anti-AcK will avoid the use of secondary antibodies therefore eliminating the interference of the 2nd antibody-conjugates.</p> <p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 6 Constituents: 0.268% PBS, 50% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Primary antibody notes	The purified antibody was conjugated to horse radish peroxidase (HRP) via reductive amination. Direct label of primary anti-AcK will avoid the use of secondary antibodies therefore eliminating

the interference of the 2nd antibody-conjugates.

Clonality

Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab23364 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ELISA		Use at an assay dependent dilution. Microarray: Use at an assay dependent dilution.
WB		Use at an assay dependent dilution. Detects a band of approximately 3 kDa.

Target

Relevance

In the nucleus, DNA is tightly packed into nucleosomes generating an environment which is highly repressive towards DNA processes such as transcription. Acetylation of lysine residues within proteins has emerged as an important mechanism used by cells to overcome this repression. The acetylation of non-histone proteins such as transcription factors, as well as histones appears to be involved in this process. Acetylation may result in structural transitions as well as specific signaling within discrete chromatin domains. The role of acetylation in intracellular signaling has been inferred from the binding of acetylated peptides by the conserved bromodomain. Furthermore, recent findings suggest that bromodomain/acetylated-lysine recognition can serve as a regulatory mechanism in protein-protein interactions in numerous cellular processes such as chromatin remodeling and transcriptional activation. The reversible lysine acetylation of histones and non-histone proteins plays a vital role in the regulation of many cellular processes including chromatin dynamics and transcription, gene silencing, cell cycle progression, apoptosis, differentiation, DNA replication, DNA repair, nuclear import, and neuronal repression. More than 20 acetyltransferases and 18 deacetylases have been identified so far, but the mechanistic details of substrate selection and site specificity of these enzymes remain unclear. Over 40 transcription factors and 30 other nuclear, cytoplasmic, bacterial, and viral proteins have been shown to be acetylated in vivo.

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