

Product datasheet

Anti-Histone H1.0 antibody [EPR6537] - BSA and Azide free ab248104

KO VALIDATED

Recombinant

RabMAb

2 Images

Overview

| | |
|---------------------|---|
| Product name | Anti-Histone H1.0 antibody [EPR6537] - BSA and Azide free |
| Description | Rabbit monoclonal [EPR6537] to Histone H1.0 - BSA and Azide free |
| Host species | Rabbit |
| Tested applications | Suitable for: IHC-P, ICC/IF, WB |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: A431 cell lysate. |
| General notes | <p>ab248104 is the carrier-free version of ab125027.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with</p> |

these species. Please contact us for more information.

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| Storage buffer | pH: 7.2 Constituent: PBS |
| Carrier free | Yes |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR6537 |
| Isotype | IgG |

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab248104 in the following tested applications.

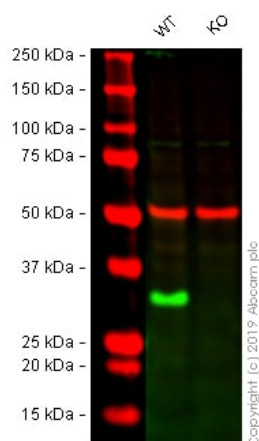
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|-------------|-----------|---|
| IHC-P | | Use at an assay dependent concentration. Antigen retrieval is not essential but may optimise staining. |
| ICC/IF | | Use at an assay dependent concentration. |
| WB | | Use at an assay dependent concentration. Detects a band of approximately 32 kDa (predicted molecular weight: 21 kDa). |

Target

| | |
|---|--|
| Function | Histones H1 are necessary for the condensation of nucleosome chains into higher-order structures. The H1F0 histones are found in cells that are in terminal stages of differentiation or that have low rates of cell division. |
| Sequence similarities | Belongs to the histone H1/H5 family. Contains 1 H15 (linker histone H1/H5 globular) domain. |
| Post-translational modifications | Phosphorylated on Ser-17 in RNA edited version. |
| Cellular localization | Nucleus. Chromosome. The RNA edited version has been localized to nuclear speckles. During mitosis, it appears in the vicinity of condensed chromosomes. |

Images



Western blot - Anti-Histone H1.0 antibody
[EPR6537] - BSA and Azide free (ab248104)

All lanes : Anti-Histone H1.0 antibody [EPR6537] ([ab125027](#)) at 1/1000 dilution

Lane 1 : Wild-type A431 (Human epidermoid carcinoma cell line) whole cell lysate

Lane 2 : H1F0 knockout A431 (Human epidermoid carcinoma cell line) whole cell lysate

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 21 kDa

Observed band size: 33 kDa

This data was developed using the same antibody clone in a different buffer formulation ([ab125027](#)).

Lanes 1 - 2: Merged signal (red and green). Green - [ab125027](#) observed at 33 kDa. Red - loading control, [ab7291](#) (Mouse anti-Alpha Tubulin [DM1A]) observed at 55kDa.

[ab125027](#) was shown to react with H1F0 in A431 wild-type cells in Western blot. Loss of signal was observed when H1F0 knockout sample was used. A431 wild-type and H1F0 knockout cell lysates were subjected to SDS-PAGE. Membranes were blocked in 3% Milk in TBS-T (0.1% Tween®) before incubation with [ab125027](#) and [ab7291](#) (Mouse anti-Alpha Tubulin [DM1A]) overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ([ab216773](#)) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed ([ab216776](#)) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Histone H1.0 antibody [EPR6537] - BSA and Azide free (ab248104)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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