

Product datasheet

Anti-6X His tag® antibody [JPAR-2] - BSA and Azide free ab245203

Recombinant RabMAb

4 Images

Overview

Product name	Anti-6X His tag® antibody [JPAR-2] - BSA and Azide free
Description	Rabbit monoclonal [JPAR-2] to 6X His tag® - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IP, IHC, Flow Cyt, WB Unsuitable for: ICC/IF
Species reactivity	Reacts with: Species independent
Immunogen	Synthetic peptide within 6X His tag® conjugated to keyhole limpet haemocyanin. The exact sequence is proprietary.
Positive control	WB: HEK-293T transfected with a His-tagged Staphylococcus aureus cas9 (J7RUA5; aa 1-1053; 125kDa) construct, whole cell lysate. IHC-P: HEK-293T transfected with a His-tagged Staphylococcus aureus cas9 (J7RUA5) construct. Flow cyt: HEK-293T transfected with a His-tagged Staphylococcus aureus cas9 (J7RUA5) construct.
General notes	Ab245203 is the carrier-free version of ab245114 . This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.

Our [carrier-free formats](#) are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.

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.

ab245203 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit

monoclonal antibodies. For details on our patents, please refer to [RabMAb® patents](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.

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	JPAR-2
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab245203** 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
IP		Use at an assay dependent concentration.
IHC		Use at an assay dependent concentration. Agarose-embedded sections. Heat mediated antigen retrieval using ab93684 (Tris/EDTA buffer, pH 9.0).

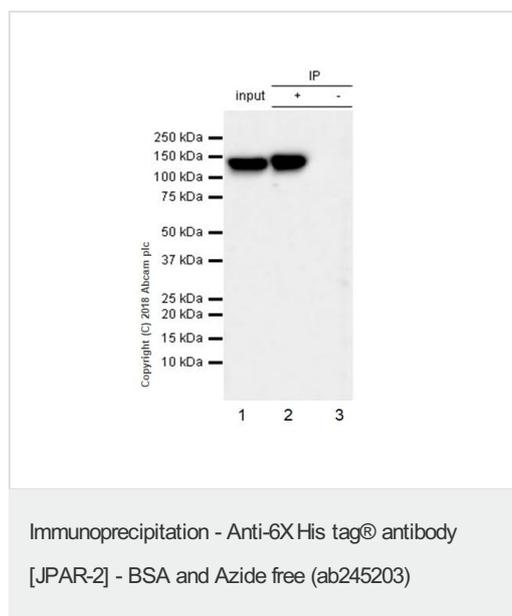
Application	Abreviews	Notes
Flow Cyt		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration.
Application notes		Is unsuitable for ICC/IF.

Target

Relevance The H-H-H-H-H-H motif is used as a tag on many recombinant proteins to facilitate purification. The antibody recognizes the His-tag fused to the amino- or carboxy- termini of targeted proteins in transfected or transformed cells.

Cellular localization Depends upon the localization of the parent protein tagged with hexahistidine.

Images



His-tagged *Staphylococcus aureus* cas9 (J7RUA5; aa 1-1053; 125kDa) was immunoprecipitated from 0.35 mg of HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) (transfected with *Staphylococcus aureus* cas9 (J7RUA5; aa 1-1053; 125kDa)) whole cell lysate with [ab245114](#) at 1/30 dilution. Western blot was performed from the immunoprecipitate using [ab245114](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/5000 dilution.

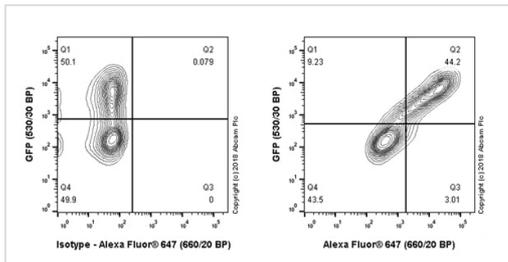
Lane 1: HEK-293T transfected with a His-tagged *Staphylococcus aureus* cas9 whole cell lysate 10 µg (Input).

Lane 2: [ab245114](#) IP in HEK-293T transfected with a His-tagged *Staphylococcus aureus* cas9 whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab245114](#) in HEK-293T transfected with a His-tagged *Staphylococcus aureus* cas9 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.
Exposure time: 30 seconds.

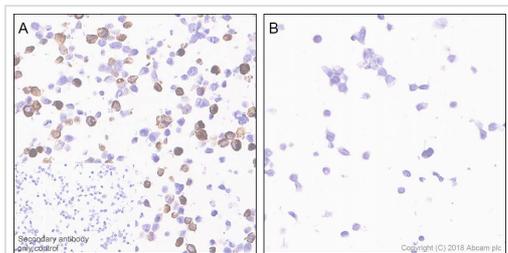
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab245114](#)).



Flow Cytometry - Anti-6X His tag[®] antibody [JPAR-2] - BSA and Azide free (ab245203)

Flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with a His-tagged *Staphylococcus aureus* cas9 (J7RUA5) construct labeling 6X His tag[®] with [ab245114](#) at 1/500 (Right) compared with a Rabbit monoclonal IgG isotype control ([ab172730](#)) (Left). Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 647) ([ab150079](#)), at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab245114](#)).



Immunohistochemistry - Anti-6X His tag[®] antibody [JPAR-2] - BSA and Azide free (ab245203)

Immunohistochemical analysis of agarose-embedded HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) labeling 6X His tag[®] with [ab245114](#) at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use. Positive staining on **(A)** HEK-293T transfected with a 6x His tag construct is observed. No staining on **(B)** HEK-293T transfected with an empty plasmid is observed. Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) ready to use.

Heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab245114](#)).

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-6XHis tag® antibody [JPAR-2] - BSA and Azide free (ab245203)

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

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