

Product datasheet

Anti-6X His tag® antibody [JPAR-2] ab245114

Recombinant RabMAb

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Overview

Product name	Anti-6X His tag® antibody [JPAR-2]
Description	Rabbit monoclonal [JPAR-2] to 6X His tag®
Host species	Rabbit
Tested applications	Suitable for: IHC-P, WB, IP, Flow Cyt Unsuitable for: ICC/IF
Species reactivity	Reacts with: Species independent
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
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	<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>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Purity	Protein A purified
Clonality	Monoclonal

Clone number JPAR-2
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab245114 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		1/500. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		1/1000.
IP		1/30.
Flow Cyt		1/500.

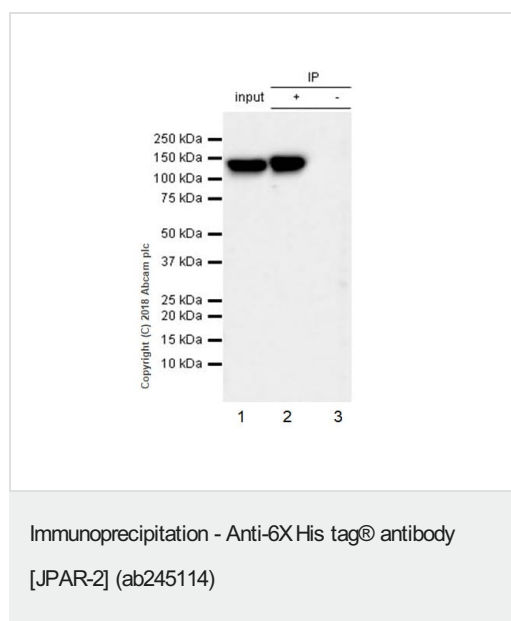
Application notes Is unsuitable for ICC/IF.

Target

Relevance The H-H-H-H-H-H motif is used as a tag on many recombinant proteins to facilitate purification. His-tags can be fused to the amino- or carboxy- termini of 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).

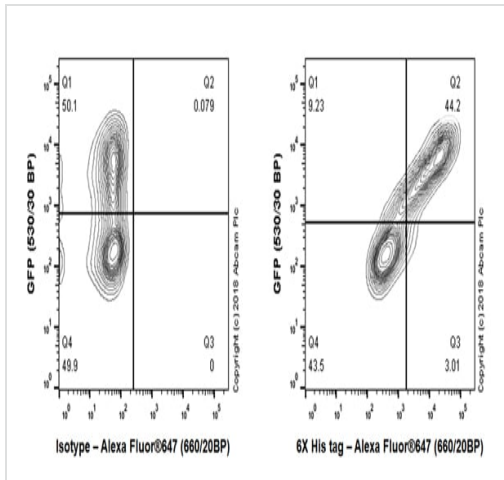
Lane 2: ab245114 IP in HEK-293T transfected with a His-tagged Staphylococcus aureus cas9 whole cell lysate.

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

cas9 whole cell lysate.

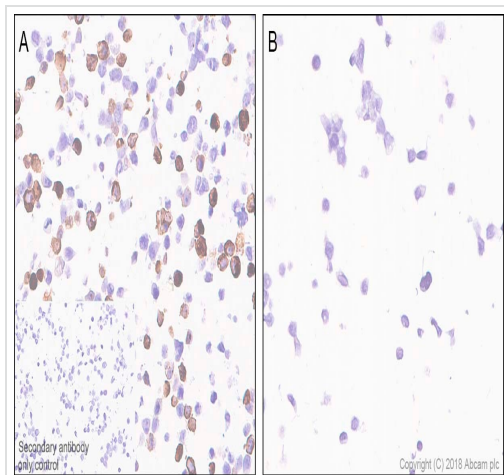
Blocking and dilution buffer and concentration: 5% NFD/MTBST.

Exposure time: 30 seconds.



Flow Cytometry - Anti-6X His tag[®] antibody [JPAR-2] (ab245114)

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.

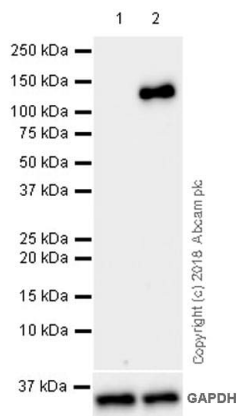


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-6X His tag[®] antibody [JPAR-2] (ab245114)

Immunohistochemical analysis of paraffin-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. Counterstained 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).



Western blot - Anti-6X His tag® antibody [JPAR-2] (ab245114)

All lanes : Anti-6X His tag® antibody [JPAR-2] (ab245114) at 1/1000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with an empty plasmid, whole cell lysate

Lane 2 : HEK-293T transfected with a His-tagged Staphylococcus aureus cas9 (J7RUA5; aa 1-1053; 125kDa) construct, whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary


All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

Observed band size: 125 kDa

Exposure time: 15 seconds

Blocking and dilution buffer: 5% NFDm/TBST.

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] (ab245114)

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

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