

Product datasheet

Anti-6X His tag® antibody [EPR20547] - BSA and Azide free
ab232492

重组 RabMAb

2 References 10 图像

概述

产品名称	Anti-6X His tag®抗体[EPR20547] - BSA and Azide free
描述	兔单克隆抗体[EPR20547] to 6X His tag® - BSA and Azide free
宿主	Rabbit
经测试应用	适用于: ICC, ChIP, IHC-P, WB, Flow Cyt, IP
种属反应性	与反应: Recombinant fragment, Species independent
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Agarose embedded HEK-293T cells.
常规说明	<p>ab232492 is the carrier-free version of ab213204.</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>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.2 Constituent: PBS
无载体	是
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR20547
同种型	IgG

应用

The Abpromise guarantee **Abpromise™** 承诺保证使用ab232492于以下的经测试应用

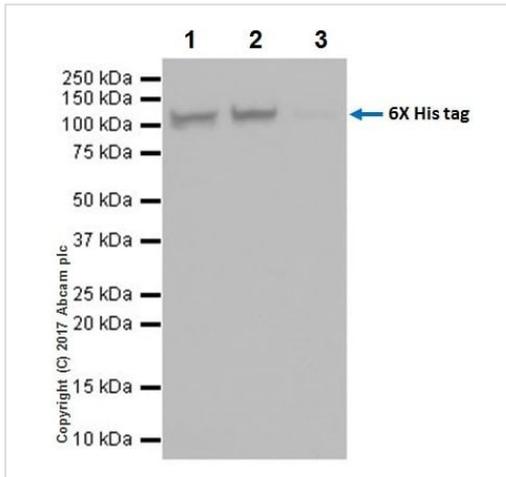
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC		Use at an assay dependent concentration.
ChIP		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. We don't recommend this antibody for mouse in IHC. In our hands mouse tissues showed non-specific staining.
WB		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

靶标

相关性	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.
细胞定位	Depends upon the localization of the parent protein tagged with hexahistidine.

图片



Immunoprecipitation - Anti-6X His tag® antibody [EPR20547] - BSA and Azide free (ab232492)

His-tagged *Staphylococcus aureus* cas9 was immunoprecipitated from 0.35 mg of HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with a His-tagged *Staphylococcus aureus* cas9 (J7RUA5; aa1-1053; 125 kDa) construct, whole cell lysate with [ab213204](#) at 1/30 dilution. Western blot was performed from the immunoprecipitate using [ab213204](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

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

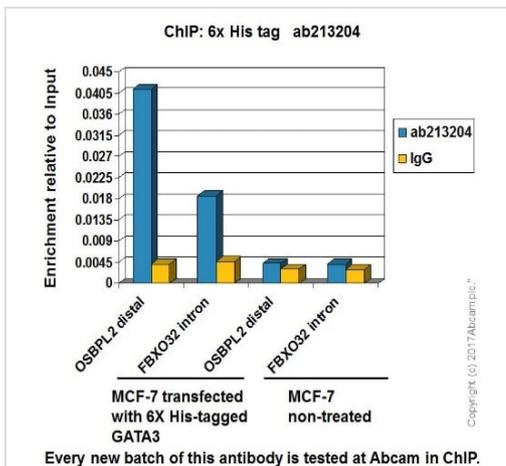
Lane 2: [ab213204](#) IP in HEK-293T transfected with His-tagged *Staphylococcus aureus* cas9 construct, whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab213204](#) in HEK-293T transfected with His-tagged *Staphylococcus aureus* cas9 construct, whole cell lysate.

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: 1 second.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab213204](#)).

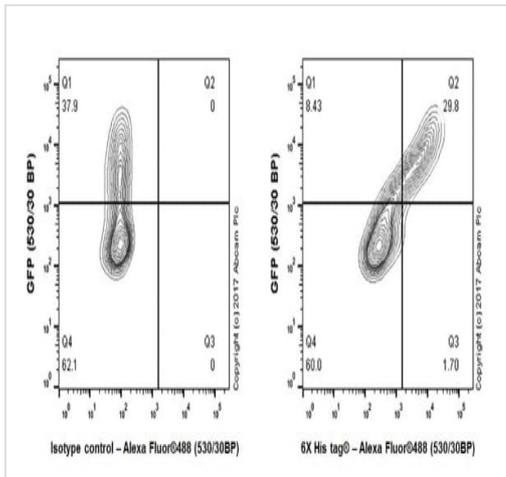


ChIP - Anti-6X His tag® antibody [EPR20547] - BSA and Azide free (ab232492)

Chromatin was prepared from MCF7 (human breast adenocarcinoma cell line) cells transfected with 6X His-tagged GATA3 according to the Abcam X-ChIP protocol. Cells were fixed with formaldehyde for 10 minutes. The ChIP was performed with 25µg of chromatin, 2µg of [ab213204](#) (blue), and 20µl of A/G sepharose beads slurry (10µl of sepharose A beads + 10µl of sepharose G beads). 2µg of rabbit normal IgG was added to the beads control (yellow). The immunoprecipitated DNA was quantified by real time PCR (Sybr green approach).

ChIP was performed according to the literature (PMID:22951069).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab213204](#)).

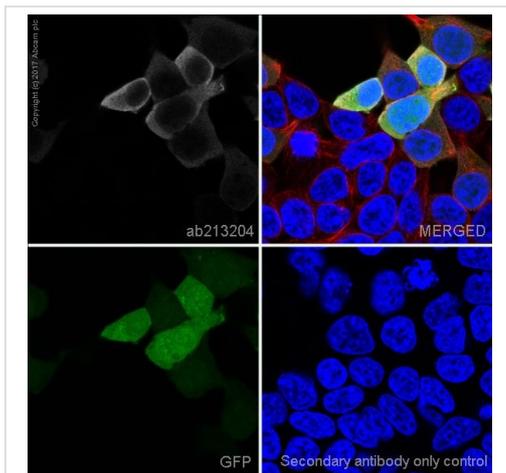


Flow Cytometry - Anti-6X His tag[®] antibody
[EPR20547] - BSA and Azide free (ab232492)

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 GFP-Myc-His vector labeling 6X His tag[®] with [ab213204](#) (right panel) at 1/5000 dilution compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control ([ab172730](#)) (left panel). Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 647) ([ab150079](#)) at 1/2000 dilution was used as the secondary antibody.

Gate is set between transfected and untransfected HEK-293T cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab213204](#)).



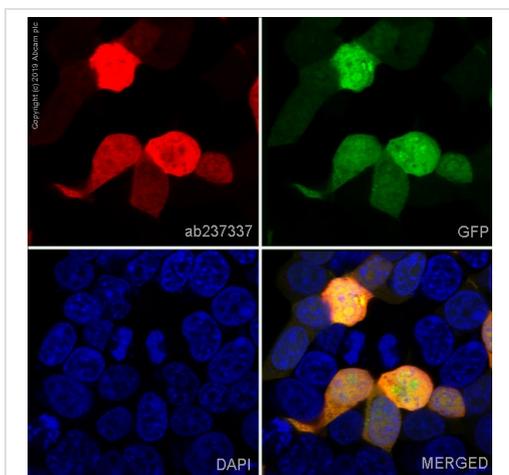
Immunocytochemistry - Anti-6X His tag[®] antibody
[EPR20547] - BSA and Azide free (ab232492)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cells transfected with GFP-Myc-His vector expression construct labeling 6X His tag[®] with [ab213204](#) at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (white). Confocal image showing positive staining on HEK-293T cells transfected with GFP-Myc-His vector expression construct.

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594) ([ab195889](#)) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.

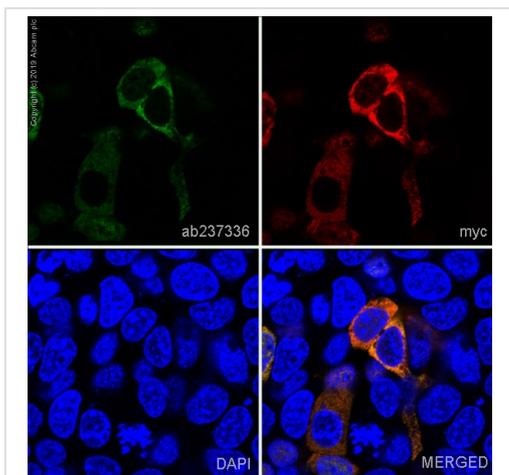
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab213204](#)).



Immunocytochemistry - Anti-6X His tag[®] antibody [EPR20547] - BSA and Azide free (ab232492)

Clone EPR20547 (ab232492) has been successfully conjugated by Abcam. This image was generated using Anti-6X His tag[®] antibody [EPR20547] (Alexa Fluor[®] 647). Please refer to [ab237337](#) for protocol details.

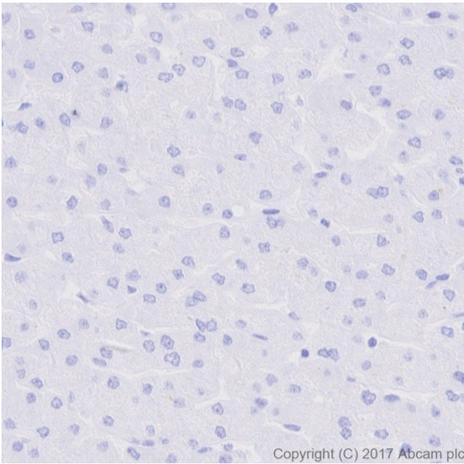
[ab237337](#) staining 6X His tag[®] in 293T cells transfected with 6X His tag[®] with GFP tag. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with [ab237337](#) at 1/100 dilution (shown in red). Nuclear DNA was labeled with DAPI (shown in blue) and GFP is shown in green.



Immunocytochemistry - Anti-6X His tag[®] antibody [EPR20547] - BSA and Azide free (ab232492)

Clone EPR20547 (ab232492) has been successfully conjugated by Abcam. This image was generated using Anti-6X His tag[®] antibody [EPR20547] (Alexa Fluor[®] 488). Please refer to [ab237336](#) for protocol details.

[ab237336](#) staining 6X His tag[®] in 293T cells transfected with 6X His tag[®] with MYC tag. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% Triton X-100 for 5 minutes and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with [ab237336](#) at 1/200 dilution (shown in green) and Mouse monoclonal to Myc-Tag (Alexa Fluor[®] 647) (shown in red). Nuclear DNA was labeled with DAPI (shown in blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-6X His tag® antibody [EPR20547] - BSA and Azide free (ab232492)

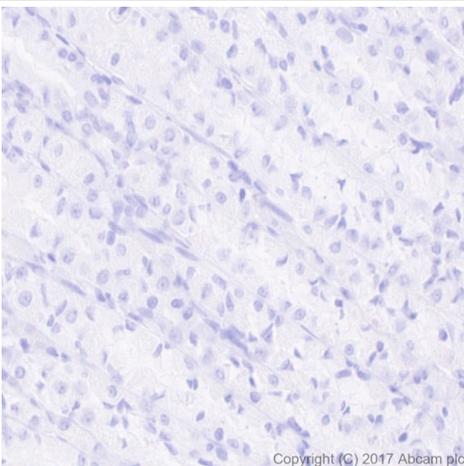
Immunohistochemical analysis of paraffin-embedded human liver tissue labeling 6X His tag® with [ab213204](#) at 1/16000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Negative control: No staining on human liver.

Counter stained with Hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab213204](#)).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-6X His tag® antibody [EPR20547] - BSA and Azide free (ab232492)

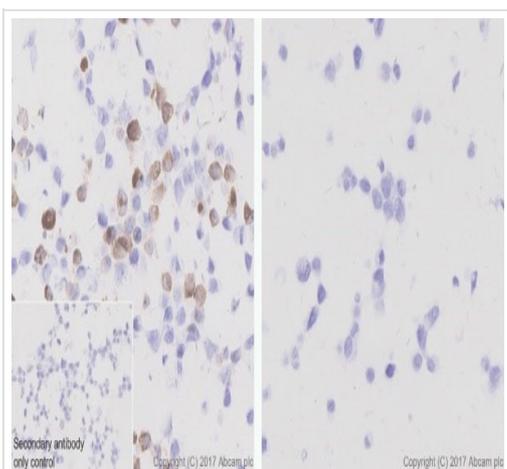
Immunohistochemical analysis of paraffin-embedded rat stomach tissue labeling 6X His tag® with [ab213204](#) at 1/16000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Negative control: No staining on rat stomach.

Counter stained with Hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab213204](#)).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-6X His tag® antibody [EPR20547] - BSA and Azide free (ab232492)

Immunohistochemical analysis of agarose-embedded HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with a His-tagged *Staphylococcus aureus* cas9 (J7RUA5; aa1-1053; 125kDa) construct labeling 6X His tag® with [ab213204](#) at 1/16000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Left image: Positive staining on HEK-293T transfected with a His-tagged *Staphylococcus aureus* cas9 (J7RUA5; aa1-1053; 125kDa) construct. **Right image:** No staining on HEK-293T transfected with an empty expression vector.

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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab213204](#)).

Heat mediated antigen retrieval was performed with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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-6X His tag® antibody [EPR20547] - BSA and Azide free (ab232492)

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

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