

Product datasheet

Anti-DDDDK tag (Binds to FLAG® tag sequence) antibody [EPR20018-251] - BSA and Azide free ab236777

Recombinant RabMAb

8 Images

Overview

Product name	Anti-DDDDK tag (Binds to FLAG® tag sequence) antibody [EPR20018-251] - BSA and Azide free
Description	Rabbit monoclonal [EPR20018-251] to DDDDK tag (Binds to FLAG® tag sequence) - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IP, Flow Cyt, ICC/IF, IHC-P, WB
Species reactivity	Reacts with: Species independent
Immunogen	Synthetic peptide within Human DDDDK tag (Binds to FLAG® tag sequence). The exact sequence is proprietary.
Positive control	IHC-P: HEK-293T transfected with DDDDK-tagged human PD-L1.
General notes	<p>ab236777 is the carrier-free version of ab205606. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes.</p> <p>Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency.</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>ab236777 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.</p> <p><i>Maxpar® is a trademark of Fluidigm Canada Inc.</i></p> <p>FLAG® is a registered trade mark of Sigma Aldrich Biotechnology LP. It is used here for informational purposes only.</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>

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	EPR20018-251
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab236777** in the following tested applications.

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

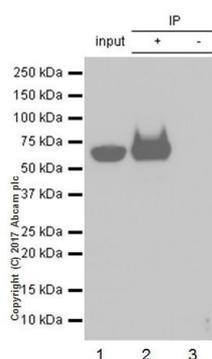
Application	Abreviews	Notes
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.

Application	Abreviews	Notes
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.
WB		Use at an assay dependent concentration.

Target

Relevance This is a useful tool for the localisation and characterisation of DDDDK tagged proteins (Binds to FLAG® tag sequence).

Images



Immunoprecipitation - Anti-DDDDK tag (Binds to FLAG® tag sequence) antibody [EPR20018-251] - BSA and Azide free (ab236777)

DDDDK tag was immunoprecipitated from 0.35 mg HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with DDDDK-tagged human PFKFB3 expression vector whole cell lysate with [ab205606](#) at 1/30 dilution. Western blot was performed from the immunoprecipitate using [ab205606](#) 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 DDDDK-tagged human PFKFB3 expression vector whole cell lysate (input).

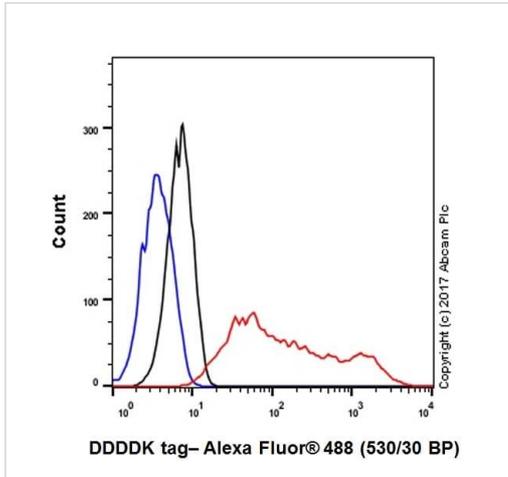
Lane 2: [ab205606](#) IP in HEK-293T transfected with DDDDK-tagged human PFKFB3 expression vector whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab205606](#) in HEK-293T transfected with DDDDK-tagged human PFKFB3 expression vector whole cell lysate.

Blocking/Dilution buffer: 5% NFDm/TBST

Exposure time: 3 seconds.

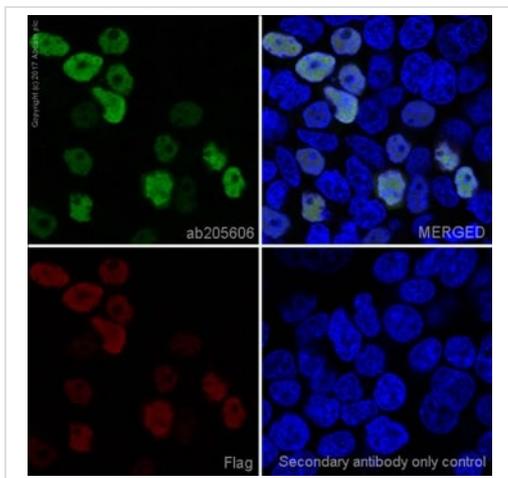
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab205606](#)).



Flow Cytometry - Anti-DDDDK tag (Binds to FLAG® tag sequence) antibody [EPR20018-251] - BSA and Azide free (ab236777)

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 DDDDK-tagged human PD-L1 expression vector labeling DDDDK tag with [ab205606](#) at 1/700 dilution (Red) compared with the Rabbit monoclonal IgG isotype control ([ab172730](#)) (Black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (Blue). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)), 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 ([ab205606](#)).

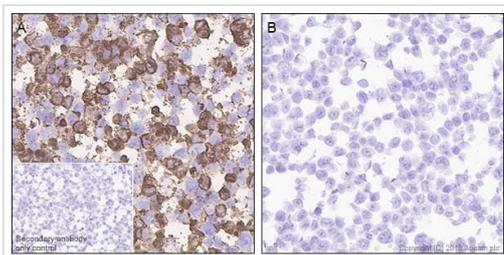


Immunocytochemistry/ Immunofluorescence - Anti-DDDDK tag (Binds to FLAG® tag sequence) antibody [EPR20018-251] - BSA and Azide free (ab236777)

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 labeling DDDDK tag with [ab205606](#) at 1/100 dilution, followed by [ab150077](#) Alexa Fluor® 488 Goat anti-Rabbit secondary at 1/1000 dilution (green).

Confocal image showing positive staining for FLAG® on HEK-293T cells transfected with DDDDK-tagged PFKFB3 expression vector. Mouse monoclonal anti-FLAG® M2 antibody was used as a counterstain at 1/500 dilution, and Alexa Fluor® 647 Goat anti-mouse secondary ([ab150115](#)) was used as the secondary antibody only control at 1/500 dilution. The nucleus is counterstained with DAPI.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab205606](#)).



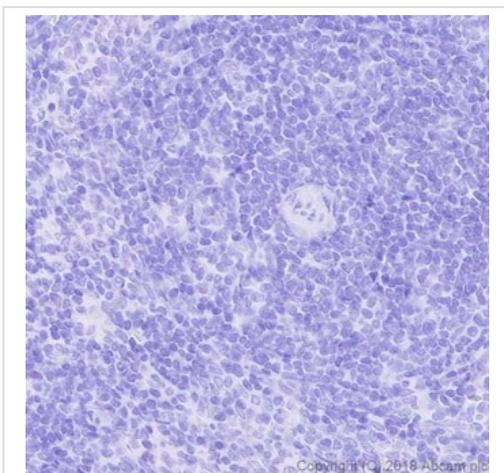
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DDDDK tag (Binds to FLAG® tag sequence) antibody [EPR20018-251] - BSA and Azide free (ab236777)

Immunohistochemical analysis of agarose-embedded HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with DDDDK-tagged human PD-L1 expression vector labeling DDDDK tag with [ab205606](#) at 1/750 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Counterstained with hematoxylin.

Positive staining on HEK-293T cells transfected with DDDDK-tagged human PD-L1 expression vector (Panel A) is observed. No signal was detected on HEK-293T transfected with an empty vector (vector control), containing a C-terminal DDDDK tag (Panel B).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab205606](#)).

Heat mediated antigen retrieval was performed with EDTA buffer pH 9 before commencing with IHC staining protocol.



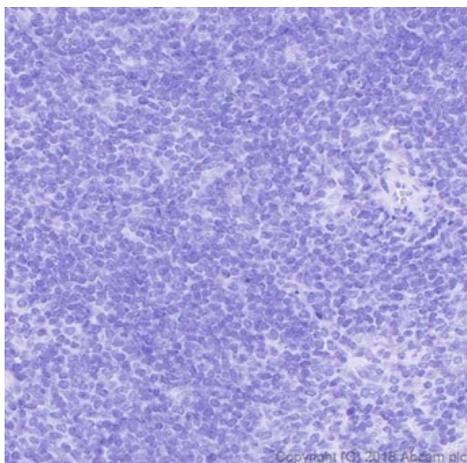
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DDDDK tag (Binds to FLAG® tag sequence) antibody [EPR20018-251] - BSA and Azide free (ab236777)

Negative control: No staining on rat spleen.

Immunohistochemical analysis of paraffin-embedded rat spleen tissue stained for DDDDK tag using [ab205606](#) at 1/750 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab205606](#)).

Heat mediated antigen retrieval was performed with EDTA buffer pH 9 before commencing with IHC staining protocol.



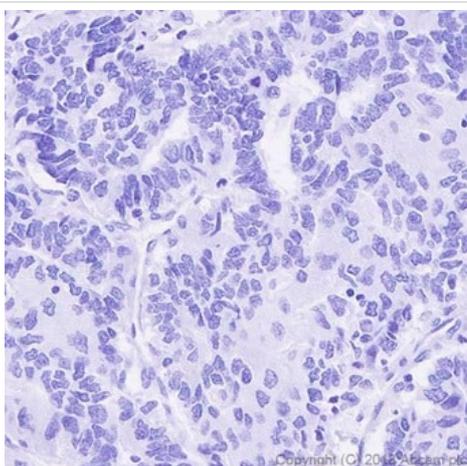
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DDDDK tag (Binds to FLAG® tag sequence) antibody [EPR20018-251] - BSA and Azide free (ab236777)

Negative control: No staining on mouse spleen.

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue stained for DDDDK tag using [ab205606](#) at 1/750 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab205606](#)).

Heat mediated antigen retrieval was performed with EDTA buffer pH 9 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-DDDDK tag (Binds to FLAG® tag sequence) antibody [EPR20018-251] - BSA and Azide free (ab236777)

Negative control: No staining on human hepatocellular cancer.

Immunohistochemical analysis of paraffin-embedded human hepatocellular cancer tissue stained for DDDDK tag using [ab205606](#) at 1/750 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab205606](#)).

Heat mediated antigen retrieval was performed with EDTA buffer pH 9 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-DDDDK tag (Binds to FLAG® tag sequence)
antibody [EPR20018-251] - BSA and Azide free
(ab236777)

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

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