

Anti-Interferon alpha 2 antibody [EPR19074] - BSA and Azide free ab230830

Recombinant RabMAb

5 Images

Overview

Product name	Anti-Interferon alpha 2 antibody [EPR19074] - BSA and Azide free
Description	Rabbit monoclonal [EPR19074] to Interferon alpha 2 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt (Intra), WB, ICC/IF, IP, ICC
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: HEK-293T cells transfected with Interferon alpha 2 expression vector containing a GFP-Myc-tag / GFP-tag.
General notes	<p>ab230830 is the carrier-free version of ab196221.</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>

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	EPR19074
Isotype	IgG

Applications

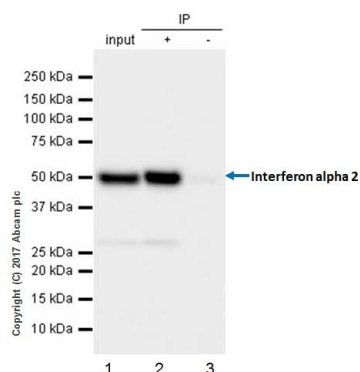
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab230830 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 22 kDa.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
ICC		Use at an assay dependent concentration. Perform heat mediated antigen retrieval using <u>ab93684</u> (Tris/EDTA buffer, pH 9.0).

Target

Function	Produced by macrophages, IFN-alpha have antiviral activities.
Sequence similarities	Belongs to the alpha/beta interferon family.
Cellular localization	Secreted.

Images



Immunoprecipitation - Anti-Interferon alpha 2 antibody [EPR19074] - BSA and Azide free (ab230830)

Interferon alpha 2 was immunoprecipitated from 0.35 mg of HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) (transfected with Interferon alpha 2 expression vector containing a GFP-His-tag) whole cell lysate using **ab196221** at 1/30 dilution. Western blot was performed from the immunoprecipitate using **ab196221** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used as for detection at 1/10000 dilution.

Lane 1: HEK-293T (transfected with Interferon alpha 2 expression vector containing a GFP-His-tag) whole cell lysate 10 µg (Input).

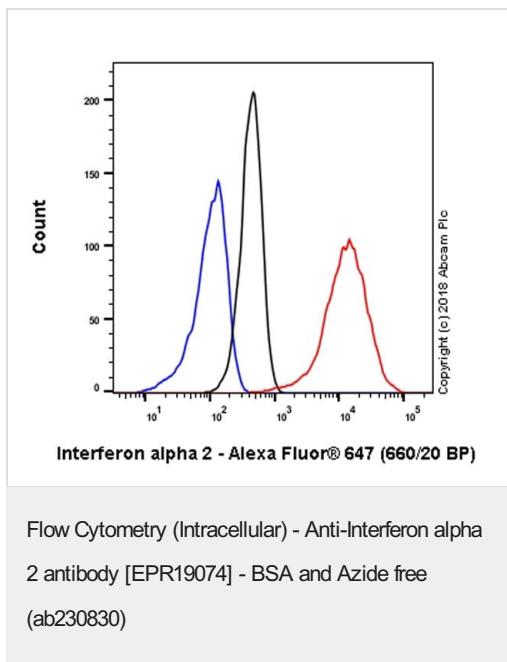
Lane 2: **ab196221** IP in HEK-293T (transfected with Interferon alpha 2 expression vector containing a GFP-His-tag) whole cell lysate.

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of **ab196221** in HEK-293T (transfected with Interferon alpha 2 expression vector containing a GFP-His-tag) whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDm/TBST. Exposure time: 1 second.

The molecular mass observed is due to the presence of the GFP epitope tag on full length IFN alpha 2.

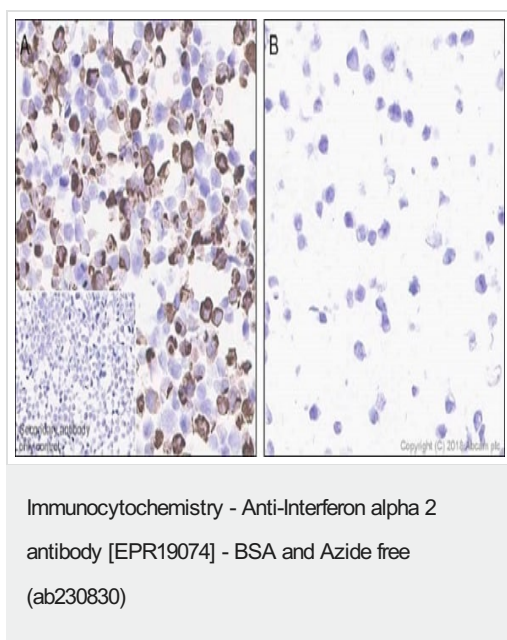
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab196221**).



Intracellular flow cytometric analysis of $1/4\%$ paraformaldehyde-fixed, 90% methanol-permeabilized HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) (transfected with Interferon alpha 2 expression vector containing a GFP-His-tag cell line) cells labeling $1/2$ Interferon alpha 2 with **ab196221** at 1/600 (red) compared with Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue).

Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 647) (**ab150079**), at 1/2000 dilution was used as the secondary antibody.

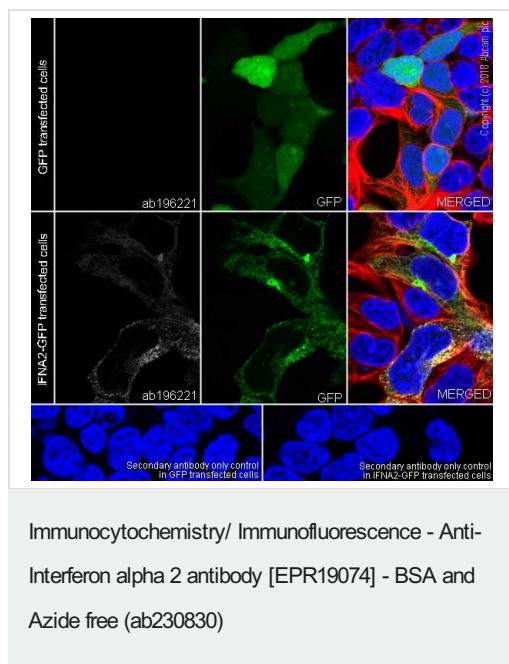
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab196221**).



Immunocytochemical analysis of agarose-embedded HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) (transfected with Interferon alpha 2 (pcDNA3.1 (+)-EGFP-Myc)) cells labeling Interferon alpha 2 with **ab196221** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ready to use secondary antibody. Positive staining on HEK-293T cells transfected with Interferon alpha 2 (pcDNA3.1 (+)-EGFP-Myc) (image A); and no staining on HEK-293T cells without transfection (image B). Counterstained with hematoxylin.

Secondary antibody only control: Used PBS instead of **ab196221**, followed by 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 (**ab196221**).



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) (transfected with either GFP-tagged Interferon alpha 2 expression vector or empty GFP expression vector) cells labeling Interferon alpha 2 with [ab196221](#) at 1/100 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 647) ([ab150079](#)) secondary antibody at 1/1000 dilution. Confocal image showing cytoplasmic staining in HEK-293T cells transfected with GFP-tagged Interferon alpha 2 expression vector.

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

Secondary antibody only control: Used PBS instead of [ab196221](#), followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 647) ([ab150079](#)) 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 ([ab196221](#)).

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-Interferon alpha 2 antibody [EPR19074] - BSA
and Azide free (ab230830)

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

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