

Anti-IFN gamma Receptor beta/AF-1 antibody [EPR22171] - BSA and Azide free ab240559

Recombinant RabMAb

4 Images

Overview

Product name	Anti-IFN gamma Receptor beta/AF-1 antibody [EPR22171] - BSA and Azide free
Description	Rabbit monoclonal [EPR22171] to IFN gamma Receptor beta/AF-1 - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: ELISA, ICC/IF, Flow Cyt
Species reactivity	Reacts with: Human, Recombinant fragment
Immunogen	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
Positive control	ICC/IF: HEK-293T cells transfected with a Myc-tagged IFN gamma Receptor beta/AF-1 expression construct.
General notes	<p>ab240559 is the carrier-free version of ab224197.</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	EPR22171
Isotype	IgG

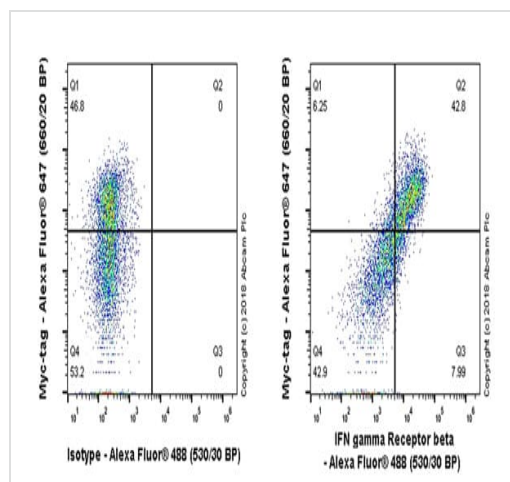
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab240559 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
ELISA		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.

Target

Function	Part of the receptor for interferon gamma. Required for signal transduction. This accessory factor is an integral part of the IFN-gamma signal transduction pathway and is likely to interact with GAF, JAK1, and/or JAK2.
Involvement in disease	Defects in IFNGR2 are a cause of mendelian susceptibility to mycobacterial disease (MSMD) [MIM:209950]; also known as familial disseminated atypical mycobacterial infection. This rare condition confers predisposition to illness caused by moderately virulent mycobacterial species, such as Bacillus Calmette-Guerin (BCG) vaccine and environmental non-tuberculous mycobacteria, and by the more virulent Mycobacterium tuberculosis. Other microorganisms rarely cause severe clinical disease in individuals with susceptibility to mycobacterial infections, with the exception of Salmonella which infects less than 50% of these individuals. The pathogenic mechanism underlying MSMD is the impairment of interferon-gamma mediated immunity, whose severity determines the clinical outcome. Some patients die of overwhelming mycobacterial disease with lepromatous-like lesions in early childhood, whereas others develop, later in life, disseminated but curable infections with tuberculoid granulomas. MSMD is a genetically heterogeneous disease with autosomal recessive, autosomal dominant or X-linked inheritance.
Sequence similarities	Belongs to the type II cytokine receptor family. Contains 2 fibronectin type-III domains.
Cellular localization	Membrane.



Flow Cytometry - Anti-IFN gamma Receptor beta/AF-1 antibody [EPR22171] - BSA and Azide free (ab240559)

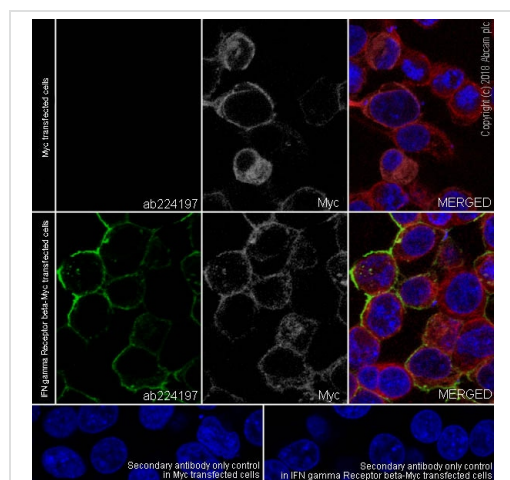
Flow cytometric analysis of HEK-293T (human embryonic kidney epithelial cell) transfected with a Myc-tagged IFN gamma Receptor beta/AF-1 expression construct cell line labeling IFN gamma Receptor beta/AF-1 with [ab224197](#) at 1/400 dilution.

Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)), at 1/2000 dilution was used as the secondary antibody.

Cells were surface stained with isotype control Rabbit monoclonal IgG ([ab172730](#)) (Left panel) or IFN gamma receptor beta/AF-1 (Right panel), then co-stained with Alexa Fluor® 647 conjugated-Myc-tag antibody.

Gated on viable cells.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab224197](#)).



Immunocytochemistry/ Immunofluorescence - Anti-IFN gamma Receptor beta/AF-1 antibody [EPR22171] - BSA and Azide free (ab240559)

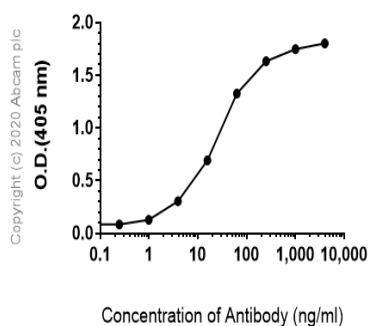
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HEK-293T (human embryonic kidney epithelial cell) cells transfected with a Myc-tagged IFN gamma Receptor beta/AF-1 expression construct labeling IFN gamma Receptor beta/AF-1 with [ab224197](#) at 1/500 dilution, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) ([ab150077](#)) secondary antibody at 1/1000 dilution (green). Confocal image showing positive staining in HEK-293T cells transfected with a Myc-tagged IFN gamma Receptor beta/AF-1 expression construct. The nuclear counterstain is DAPI (blue).

Counterstained with [ab195889](#) Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) at a 1/200 dilution (red) and Myc-Tag (9B11) Mouse mAb (Alexa Fluor® 647 Conjugate) (white).

The negative control is the secondary antibody only.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide ([ab224197](#)).

Indirect ELISA antibody dose-response curve
antigen at 1000 ng/ml



This data was developed using **ab224197**, the same antibody clone in a different buffer formulation.

ELISA analysis of Human IFNGR2 recombinant protein at 1000 ng/mL with **ab224197**. An Alkaline Phosphatase-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L) at 1/2500 dilution was used as the secondary antibody.

ELISA - Anti-IFN gamma Receptor beta/AF-1
antibody [EPR22171] - BSA and Azide free
(ab240559)

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-IFN gamma Receptor beta/AF-1 antibody
[EPR22171] - BSA and Azide free (ab240559)

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

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