abcam

ab315441

Anti-BAFF-R antibody [EPR26054-53] - BSA and Azide free

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Carrier free	Yes
Clone number	EPR26054-53
Purification technique	Affinity purification Protein A
Concentration	1.019 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

WB

Not recommended

Species	Human, Mouse, Rat
Dilution info	-

Notes	-

IHC-P

Not recommended

Species	Human, Mouse, Rat
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

IP

Not recommended

Species	Mouse, Human, Rat
Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Mouse
Dilution info	-
Notes	-

Not recommended

Species	Human, Rat
Dilution info	-

Notes	-

Target data

See full target information Tnfrsf13c

Function	B-cell receptor specific for TNFSF13B/TALL1/BAFF/BLyS. Promotes the survival of mature B-cells and the B-cell response.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Notes

ab315441 is the carrier-free version of ab315440.

Patented technology

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Conjugation ready

Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. 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.

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.

Compatibility

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.

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	BAFF-R also known as B-cell activating factor receptor or BAFF receptor plays a critical role in B-cell development and survival. BAFF-R is a receptor for the BAFF protein also referred to as B lymphocyte stimulator (BLyS). BAFF-R has a molecular mass of approximately 19 kDa. The expression of BAFF-R is found on B cells with higher presence on mature B cells compared to immature ones. The receptor is recognized as the main signaling partner for BAFF which forms the basis for many of its immune functions.
Biological function summary	BAFF-R is essential for the maturation and maintenance of peripheral B cells. The receptor contributes to the regulation of immune responses by ensuring B-cell homeostasis. It does not generally form part of a larger protein complex but instead functions as a membrane-bound receptor that transmits signals upon binding with the BAFF ligand. This signaling cascade supports the survival and proliferation of B cells which is fundamental for the adaptive immune system.
Pathways	BAFF-R is deeply involved in the NF-κB signaling pathway which is important for immune regulation and cell survival. Upon binding with BAFF BAFF-R recruits associated proteins to initiate the pathway and as a result promotes gene transcription important for B-cell function. Another connected pathway involves AKT a protein kinase that regulates B-cell metabolism and differentiation. Both NF-κB and AKT pathways help facilitate the immune functions tied to B cells directly through BAFF-R signaling.
Associated diseases and disorders	BAFF-R demonstrates a notable link with autoimmune diseases such as systemic lupus erythematosus (SLE) and rheumatoid arthritis. Overexpression of BAFF impacting interaction with BAFF-R contributes to such conditions by promoting the survival of autoreactive B cells. In SLE BAFF works with another receptor TACI influencing the proliferation of autoreactive cells. The persistent activation and dysfunction of the immune response through BAFF-R interactions exacerbate these autoimmune conditions.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

We do not recommend this combination. It is not covered by our product promise.

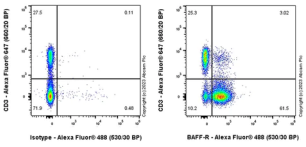
We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

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2 product images



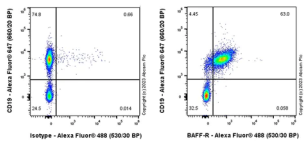
Flow Cytometry - Anti-BAFF-R antibody [EPR26054-53] - BSA and Azide free (ab315441)

This data was developed using ab315440, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of Mouse PBMC (mouse peripheral blood mononuclear cell) cells labelling BAFF-R with ab315440 at 1/500 dilution (0.1 ug)/Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control.

Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells. Cells are co-stained with CD3 conjugated to Alexa Fluor®647.



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Goat Anti-Rabbit IgG (Alexa Fluor® 488, ab150081) at 1/5000 dilution was used as the secondary antibody.

Gated on viable cells. Cells are co-stained with CD19 conjugated to Alexa Fluor®647.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.