abcam

ab233775

Anti-BAFF-R antibody [5A9B6]

Mouse Monoclonal BAFF-R antibody. Suitable for Flow Cyt, WB and reacts with Human, Rat samples. Cited in 3 publications. Immunogen corresponding to Recombinant Fragment Protein within Human TNFRSF13C aa 1-100.

Image updates are in progress. Products remain available and covered by the Abcam Product Promise. Learn more.

Key facts

Isotype	IgG2b
Host species	Mouse
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Recombinant Fragment Protein within Human TNFRSF13C aa 1-100. The exact immunogen used to generate this antibody is proprietary information. Database link Q96RJ3
Clone number	5A9B6
Purification technique	Affinity purification Protein G
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purified from tissue culture supernatant.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/200 - 1/400
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

WB

Tested

Species	Rat
Dilution info	1/500 - 1/2000
Notes	-

Species	Human
Dilution info	1/500 - 1/2000
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 duration	1-2 weeks
Appropriate short-term storage conditions	+4°C

Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

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.

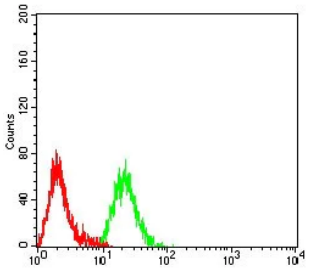
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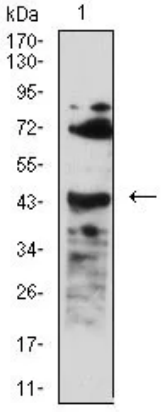
2 product images



Flow Cytometry - Anti-BAFF-R antibody [5A9B6] (ab233775)

BAFF-R Flow Cytometry staining using mouse Anti-BAFF-R antibody

Flow cytometric analysis of Raji (human Burkitt's lymphoma cell line) cells labeling BAFF-R using ab233775 at 1/200 dilution (green) and the negative control (red).



Western blot - Anti-BAFF-R antibody [5A9B6] (ab233775)

All lanes:
Western blot - Anti-BAFF-R antibody [5A9B6] (ab233775) at 1/500 dilution

All lanes:
C6 (Rat glial tumor cell line) cell lysate

Predicted band size: 19 kDa

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