abcam

ab269588

Anti-TACI antibody [EPR23045-153] - 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	EPR23045-153
Purification technique	Affinity purification Protein A
Concentration	0.998 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	-

Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	-
Notes	-

WB

Expected

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

IHC-P

Not recommended

Species	Human
Dilution info	-
Notes	-

ICC/IF

Not recommended

Species	Human
Dilution info	-
Notes	-

Target data

See full target information TNFRSF13B

Function	Receptor for TNFSF13/APRIL and TNFSF13B/TALL1/BAFF/BLYS that binds both ligands with similar high affinity. Mediates calcineurin-dependent activation of NF-AT, as well as activation of NF-kappa-B and AP-1. Involved in the stimulation of B- and T-cell function and the regulation of humoral immunity.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C
Storage information	Do Not Freeze

Notes

ab269588 is the carrier-free version of ab239370.

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	Transmembrane Activator and CAML Interactor known as TACI also goes by the names TNFRSF13B and CD267. TACI is a receptor with a molecular weight of approximately 33 kDa. It is expressed on B cells a type of lymphocyte and to some extent on activated T cells. This receptor plays a part in the immune system helping manage the production and function of certain antibodies.
Biological function summary	TACI involves the regulation of B cell function and survival. It binds to two ligands APRIL and BAFF and TACI is not part of any larger complex. Upon ligand binding TACI can promote antibody class-switching which adjusts the type of antibody that B cells produce. This action supports the immune response by allowing the body to adapt to different pathogens effectively.
Pathways	Immune responses involve TACI in the BAFF-APRIL signaling pathway. The interplay between TACI and its ligands influences the NF-kB signaling cascade leading to B cell proliferation and survival. TACI interacts with other proteins such as BCMA and BAFF-R which are important in regulating B cell homeostasis and function ensuring balanced and effective immune responses.
Associated diseases and disorders	Aberrant TACI function contributes to conditions like Common Variable Immunodeficiency (CVID) and Systemic Lupus Erythematosus (SLE). In CVID mutations in the TACI gene may lead to impaired antibody production resulting in frequent infections. In the context of SLE TACI's interactions with BAFF and APRIL can contribute to the overactivation of B cells causing autoimmune characteristics of the disease. TACI's role in these conditions makes it a focus for studying therapeutic interventions.

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

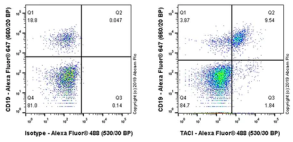
We do not recommend this combination. It is not covered by our product promise.

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.

2 product images



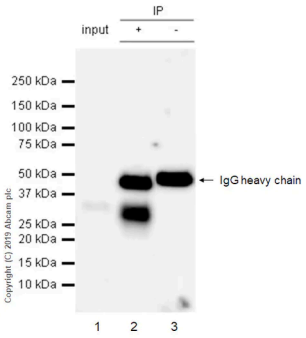
Flow Cytometry - Anti-TACI antibody [EPR23045-153] - BSA and Azide free (ab269588)

TACI Flow Cytometry staining using rabbit Anti-TACI antibody

Flow cytometric analysis of human peripheral blood mononuclear cell (PBMC) cells labeling TACI with ab239370 at 1/400 dilution (Right) compared with a Rabbit monoclonal IgG (ab172730) isotype control (Left). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.
Cells were stained with rabbit IgG (Left) or ab239370 (Right). Then stained with anti-CD19 conjugated to Alexa Fluor 647.

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 (ab239370).



Immunoprecipitation - Anti-TACI antibody [EPR23045-153] - BSA and Azide free (ab269588)

TACI was immunoprecipitated from 0.35 mg Raji (Human Burkitt's lymphoma B lymphocyte) whole cell lysate with ab239370 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab239370 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (ab131366) was used at 1/1000 dilution.
Lane 1: Raji whole cell lysate 10µg

Lane 2: ab239370 IP in Raji whole cell lysate

Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab239370 in Raji whole cell lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 30 seconds

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (ab239370).

All lanes:
Immunoprecipitation - Anti-TACI antibody [EPR23045-153] (ab239370)

Predicted band size: 32 kDa

Observed band size: 32 kDa

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