abcam

ab234225

Anti-TACI antibody [1A1]

Key facts

Isotype	IgG2a
Host species	Rat
Storage buffer	pH: 7.4 Preservative: 0.0975% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing TNFRSF13B protein. The exact immunogen used to generate this antibody is proprietary information. Database link O14836
Clone number	1A1
Purification technique	Affinity purification Protein G
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purity > 95% (by SDS-PAGE).

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1-4 µg/mL
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 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	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

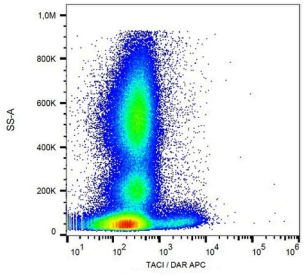
We do not recommend this combination. It is not covered by our product promise.

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.

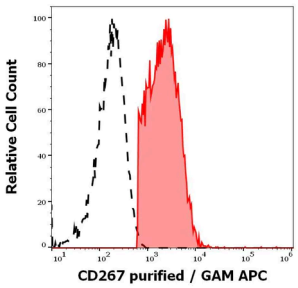
2 product images



Flow Cytometry - Anti-TACI antibody [1A1] (ab234225)

TACI Flow Cytometry staining using rat Anti-TACI antibody

Flow cytometric analysis of human peripheral blood labeling TACI with ab234225, followed by Donkey anti-rat APC. Surface staining, gated on leukocytes.



Flow Cytometry - Anti-TACI antibody [1A1] (ab234225)

Separation of human CD267 positive CD19 positive B cells (red-filled) from CD267 negative CD19 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using ab234225 at 3 µg/ml (GAM APC).

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