abcam

ab282790

PE Anti-TACI antibody [EPR23045-153]

Recombinant | RabMAb

Key facts

Isotype	IgG
Host species	Rabbit
Conjugation	PE
Excitation/Emission	Ex: 480;565nm, Em: 578nm
Storage buffer	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: PBS, 1% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR23045-153
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	1/2500

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	+4°C
Aliquoting information	Upon delivery aliquot
Storage information	Store in the dark

Notes

This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.

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.

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

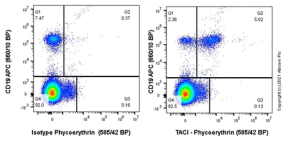
We do not recommend this combination. It is not covered by our product promise.

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.

1 product image



Flow Cytometry - PE Anti-TACI antibody [EPR23045-153] (ab282790)

TACI Flow Cytometry staining using rabbit Anti-TACI antibody

Flow cytometry staining of human peripheral blood mononuclear cells (PBMCs) with ab282790 (right) or Rabbit IgG (monoclonal) Phycoerythrin (ab209478) isotype (left). PBMCs were incubated for 30 min on ice in 1x PBS containing 10µg/ml human IgG and 10% normal goat serum to block FC receptors and non-specific protein-protein interaction followed by the antibody (ab282790) or Rabbit IgG (monoclonal) Phycoerythrin (ab209478) isotype (100 µl at 0.2µg/ml (1/2500)) for 30 min on ice. The cells were simultaneously stained with CD19.
Acquisition of >30000 events were collected using a 50 mW Yellow/Green laser (561nm) and 585/42 bandpass filter. Events were gated on live lymphocytes.

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