

Anti-GITR/CD357 antibody [CAL61] - 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	CAL61
Purification technique	Affinity purification Protein A
Concentration	1.013 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →
Purification notes	Purity is greater than 99%.

Reactivity data

IP

Not recommended

Species	Mouse
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Dilution info	-
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Notes	-
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WB

Expected

Species	Mouse
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Dilution info	Use at an assay dependent concentration.
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Notes	-
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ICC/IF

Not recommended

Species	Mouse
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Dilution info	-
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Notes	-
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Flow Cyt (Intra)

Tested

Species	Mouse
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Dilution info	-
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Notes	-
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IHC-P

Tested

Species	Mouse
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Dilution info	-
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Notes	-
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Target data

Function	Receptor for TNFSF18. Seems to be involved in interactions between activated T-lymphocytes and endothelial cells and in the regulation of T-cell receptor-mediated cell death. Mediated NF-kappa-B activation via the TRAF2/NIK pathway (By similarity).
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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

ab251610 is the carrier-free version of ab237725.

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	GITR also known as TNFRSF18 is a 241 amino acid protein with a mass of approximately 27 kDa. It belongs to the tumor necrosis factor receptor superfamily. GITR is highly expressed on activated T cells and regulatory T cells (Tregs). The gene encoding GITR is located on chromosome 1 in humans. High surface expression is also observed in immune tissues such as the thymus spleen and lymph nodes playing an important role in immune responses.
Biological function summary	GITR acts as a costimulatory molecule that enhances T cell activation and proliferation. It does not function as part of a complex but interacts directly with

ligand GITRL triggering downstream signaling cascades. This interaction is key in the modulation of immune responses notably in enhancing the activity of effector T cells and regulating Treg functions. Activation of GITR can reduce Treg-mediated suppression leading to enhanced immune responses.

Pathways

The mechanistic role of GITR involves NF-kB and MAPK signaling pathways. Through these GITR impacts immune responses by stimulating the production of cytokines and promoting cell survival and proliferation. GITR signaling intersects with pathways involving proteins such as NF-kB further integrating with the immune system's regulation crescendo.

Associated diseases and disorders

GITR appears to play a role in autoimmune conditions like rheumatoid arthritis and potential cancer immunotherapy. In autoimmune diseases GITR modulates immune activity influencing the balance between inhibition and activation of T cells. In oncology GITR targeting aims to enhance immune responses against tumors. Through these conditions GITR shows connections to proteins such as CTLA-4 which also contributes to immune regulatory processes.

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

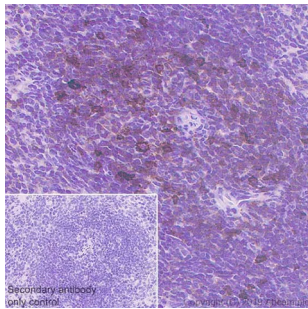
We do not recommend this combination. It is not covered by our product promise.

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](#).

4 product images

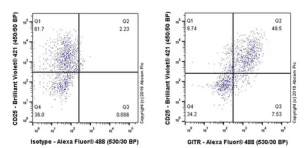


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GTR/CD357 antibody [CAL61] - BSA and Azide free (ab251610)

GTR/CD357 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GTR/CD357 antibody

Immunohistochemical analysis of paraffin-embedded mouse spleen tissue labeling GTR with [ab237725](#) at 1/500 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on the mouse spleen is observed. Counterstained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

This data was developed using the same antibody clone in a different buffer formulation containing PBS and sodium azide ([ab237725](#)).

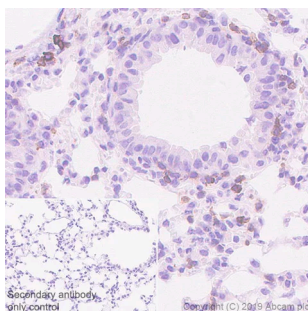


Flow Cytometry (Intracellular) - Anti-GTR/CD357 antibody [CAL61] - BSA and Azide free (ab251610)

GTR/CD357 Flow Cytometry (Intracellular) staining using rabbit Anti-GTR/CD357 antibody

Intracellular flow cytometric analysis of 2% paraformaldehyde-fixed, 0.1% Tween-20 permeabilized mouse splenocytes treated with 2.5 µg/ml concanavalin A for 3 days labeling GTR with [ab237725](#) at 1/500 (right panel) compared with a Rabbit monoclonal IgG ([ab172730](#)) (left panel). Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)), at 1/2000 dilution was used as the secondary antibody. Cells were surface stained with anti-CD25 conjugated to BV421. Then fixed with 2% PFA followed by intracellularly stained with rabbit IgG (Left) or [ab237725](#) (Right).

This data was developed using the same antibody clone in a different buffer formulation containing PBS and sodium azide ([ab237725](#)).

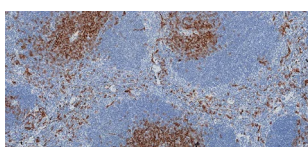


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GTR/CD357 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GTR/CD357 antibody

Immunohistochemical analysis of paraffin-embedded mouse lung tissue labeling GTR with [ab237725](#) at 1/500 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Positive staining on the mouse lung is observed. Counterstained with hematoxylin. Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Goat Anti-Rabbit IgG H&L (HRP). Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GTR/CD357 antibody [CAL61] - BSA and Azide free (ab251610)

GITR/CD357 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-GITR/CD357 antibody

Formalin-fixed, paraffin-embedded mouse spleen tissue stained for GITR using [ab237725](#) at 0.125 µg/ml dilution in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS and sodium azide ([ab237725](#)).

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