

Product datasheet

Anti-GITR antibody [CAL52] - BSA and Azide free
ab251600

Recombinant

6 Images

Overview

Product name	Anti-GITR antibody [CAL52] - BSA and Azide free
Description	Rabbit monoclonal [CAL52] to GITR - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF, IP, Flow Cyt Unsuitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human GITR aa 150-250. Database link: Q9Y5U5
Positive control	IHC-P: Human tonsil tissue. ICC/IF: HEK-293T cells. IP: HEK-293T and Hut-78 whole cell lysate. Flow: Human peripheral blood mononuclear cells.
General notes	ab251600 is a PBS-only buffer format of ab237713 . Please refer to ab237713 for recommended dilutions, protocols, and image data. The formulation and the concentration of this product is compatible for metal-conjugation for mass cytometry (CyTOF®). <i>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.</i> This product was previously labelled as TNFRSF18

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Purity	Protein A purified

Purification notes	Purity is greater than 99%.
Clonality	Monoclonal
Clone number	CAL52
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab251600** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

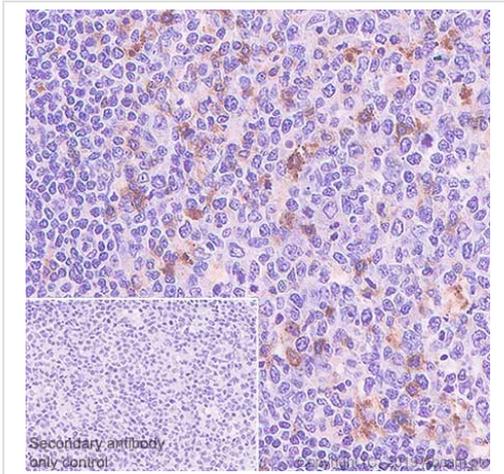
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Boil tissue section in TRIS EDTA buffer for 24 min followed by cooling at room temperature for 30-45 min. Primary antibody incubation for 75 minutes at room temperature.
ICC/IF		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.
Flow Cyt		Use at an assay dependent concentration.

Application notes Is unsuitable for WB.

Target

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.
Tissue specificity	Expressed in lymph node, peripheral blood leukocytes and weakly in spleen.
Sequence similarities	Contains 3 TNFR-Cys repeats.
Cellular localization	Secreted and Cell membrane.

Images

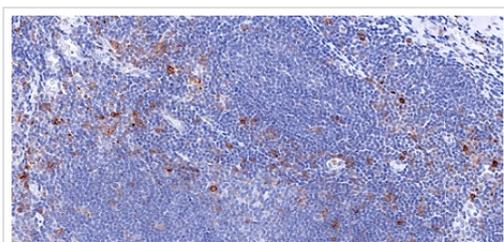


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GITR antibody [CAL52] - BSA and Azide free (ab251600)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling GITR with [ab237713](#) at 1/4000 dilution, followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)). Positive staining on the human tonsil is observed. Counter stained with Hematoxylin. The section was incubated with [ab237713](#) for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND[®] RX instrument.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

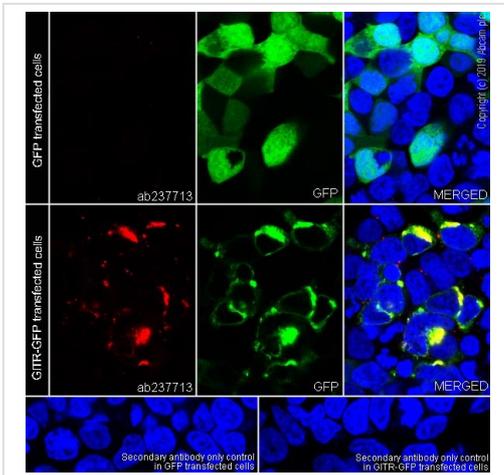
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab237713](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GITR antibody [CAL52] - BSA and Azide free (ab251600)

Formalin-fixed, paraffin-embedded human tonsil tissue stained for TNFSF18 using [ab237713](#) at 0.25 µg/ml in immunohistochemical analysis.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab237713](#)).

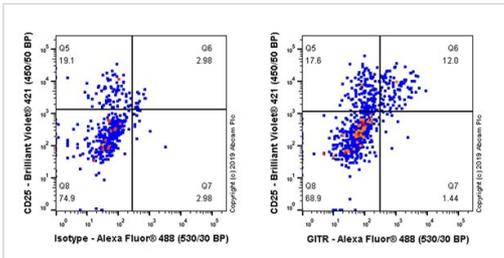


Immunocytochemistry/ Immunofluorescence - Anti-GITR antibody [CAL52] - BSA and Azide free (ab251600)

4% Paraformaldehyde-fixed 0.1% TritonX-100 permeabilized HEK-293T (human embryonic kidney epithelial cell) cells labeling GITR with [ab237713](#) at 1/50 dilution followed by a AlexaFluor®594 Goat anti-Rabbit secondary ([ab150080](#)) at a 1/500 dilution (Green). The nuclear counterstain was DAPI (Blue). Confocal image showing Positive staining in HEK-293T cells transfected with a GFP-tagged GITR expression construct.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is an AlexaFluor®594 Goat anti-Rabbit secondary ([ab150080](#)) at a 1/500 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab237713](#)).

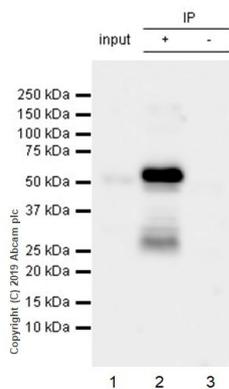


Flow Cytometry - Anti-GITR antibody [CAL52] - BSA and Azide free (ab251600)

Flow cytometric analysis of 2% paraformaldehyde-fixed, 0.1% tween-20 permeabilized Human peripheral blood mononuclear cell (PBMC) treated with 10µg/ml PHA for 48h, labeling GITR with [ab237713](#) at 1/500 dilution. The secondary antibody was a Goat anti rabbit IgG (Alexa Fluor® 488, [ab150097](#)) at 1/500 dilution.

Cells were surface stained with anti-CD25 conjugated to BV421. Then fixed with 2% PFA followed by intracellular staining rabbit IgG (Left) or [ab237713](#) (Right). The isotype control used was a Rabbit monoclonal IgG ([ab172730](#), Left).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab237713](#)).



Immunoprecipitation - Anti-GTR antibody [CAL52] - BSA and Azide free (ab251600)

GTR was immunoprecipitated from 0.35 mg Hut-78 (Human Sezary syndrome cutaneous T lymphocyte) whole cell lysate using [ab237713](#) at 1/30 dilution. western blot was performed on the immunoprecipitate using [ab237713](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used as the secondary antibody at 1/5000 dilution.

Lane 1: Hut-78 whole cell lysate 10 µg (input)

Lane 2: [ab237713](#) IP in Hut-78 whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab237713](#) in Hut-78 whole cell lysate.

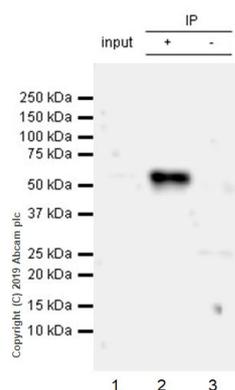
Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 15 seconds.

This blot was developed using a higher sensitivity ECL substrate.

Dimerized GTR was also observed at 52kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab237713](#)).



Immunoprecipitation - Anti-GTR antibody [CAL52] - BSA and Azide free (ab251600)

GTR was immunoprecipitated from 0.35 mg HEK-293T (Human embryonic kidney epithelial cell) transfected with GFP-tagged GTR overexpression vector whole cell lysate using [ab237713](#) at 1/30 dilution. western blot was performed on the immunoprecipitate using [ab237713](#) at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) was used as the secondary antibody at 1/5000 dilution.

Lane 1: Hut-78 whole cell lysate 10 µg (input)

Lane 2: [ab237713](#) IP in Hut-78 whole cell lysate.

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of [ab237713](#) in 293T transfected with GFP-tagged GTR overexpression vector whole cell lysate

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

Exposure time: 3 minutes.

This blot was developed using a higher sensitivity ECL substrate.

Dimerized GTR was also observed at 52kDa

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide ([ab237713](#)).

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