

Product datasheet

Anti-GITR antibody [CAL52] ab237713

Recombinant

6 Images

Overview

<b>Product name</b>	Anti-GITR antibody [CAL52]
<b>Description</b>	Rabbit monoclonal [CAL52] to GITR
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> ICC/IF, Flow Cyt, IP, IHC-P <b>Unsuitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide. This information is considered to be commercially sensitive.
<b>Positive control</b>	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.
<b>General notes</b>	This product was previously labelled as TNFRSF18

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.50 Preservative: 0.05% Sodium azide Constituent: PBS
<b>Purity</b>	Protein A purified
<b>Purification notes</b>	Purity >99%.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	CAL52
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab237713** 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
ICC/IF		1/50.
Flow Cyt		1/500.
IP		1/30.
IHC-P		Use a concentration of 0.25 µg/ml. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

**Application notes** Is unsuitable for WB.

## Target

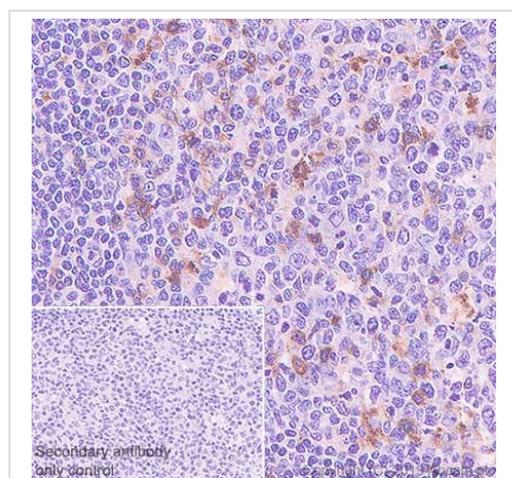
**Function** Receptor for TNFSF18. Seems to be involved in interactions between activated T-lymphocytes and endothelial cells and in the regulation of T-cell receptor-mediated cell death. Mediated NF-kappa-B activation via the TRAF2/NIK pathway.

**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.

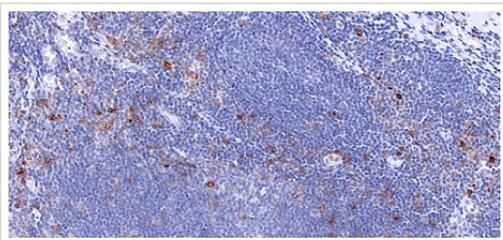
## Images



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<sup>®</sup> RX instrument.

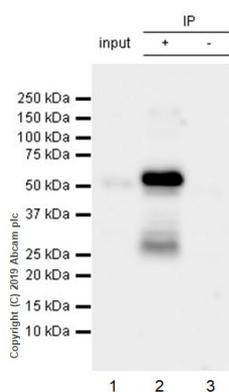
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is a ready to use Rabbit specific IHC polymer detection kit HRP/DAB ([ab209101](#)).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GITR antibody [CAL52] (ab237713)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GITR antibody [CAL52] (ab237713)

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



Immunoprecipitation - Anti-GITR antibody [CAL52] (ab237713)

GITR 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.

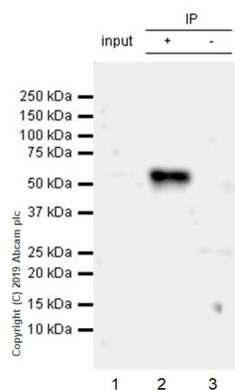
Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab237713 in Hut-78 whole cell lysate.

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

Exposure time: 15 seconds.

This blot was developed using a higher sensitivity ECL substrate.

Dimerized GITR was also observed at 52kDa



Immunoprecipitation - Anti-GITR antibody [CAL52] (ab237713)

GITR was immunoprecipitated from 0.35 mg HEK-293T (Human embryonic kidney epithelial cell) transfected with GFP-tagged GITR 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 GITR overexpression vector whole cell lysate

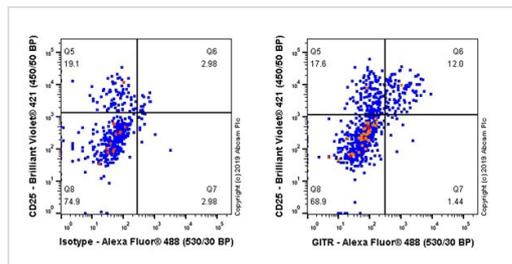
Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 3 minutes.

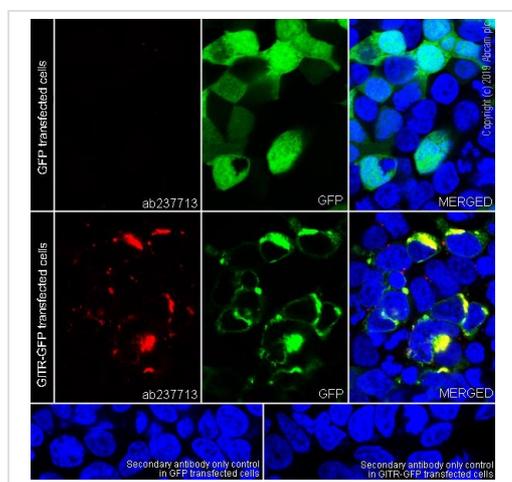
This blot was developed using a higher sensitivity ECL substrate.

Dimerized GITR was also observed at 52kDa

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).



Flow Cytometry - Anti-GITR antibody [CAL52] (ab237713)



Immunocytochemistry/ Immunofluorescence - Anti-GITR antibody [CAL52] (ab237713)

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

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