

Product datasheet

Anti-GITR antibody [EPR20566] ab223841

Recombinant RabMAb

[1 References](#) [6 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-GITR antibody [EPR20566] |
| Description | Rabbit monoclonal [EPR20566] to GITR |
| Host species | Rabbit |
| Specificity | We found ab223841 worked well in WB with recombinant protein only. The glycosylation of the endogenous target resulted in different molecular masses on the blot. |
| Tested applications | Suitable for: WB, IHC-P, ICC/IF |
| Species reactivity | Reacts with: Human |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | WB: HEK-293T transfected with human GITR, containing a Myc-GFP-tag, whole cell lysate. IHC-P: Human tonsil, colon and Hodgkin's lymphoma tissues. ICC/IF: HEK-293T cells transfected with GFP-tagged GITR expression vector. |
| General notes | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> |

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. Avoid freeze / thaw cycle. |
| Storage buffer | <p>pH: 7.2</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA</p> |
| Purity | Protein A purified |
| Clonality | Monoclonal |

Clone number EPR20566

Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab223841 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 |
|-------------|-----------|--|
| WB | | 1/1000. Predicted molecular weight: 26 kDa. |
| IHC-P | | 1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol. |
| ICC/IF | | 1/500. |

Target

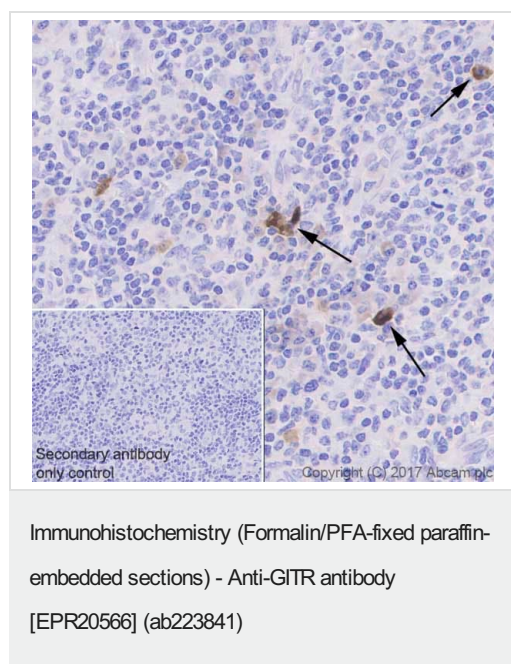
Function Receptor for TNFSF18. Seems to be involved in interactions between activated T-lymphocytes and endothelial cells and in the regulation of T-cell receptor-mediated cell death. Mediated NF-kappa-B activation via the TRAF2/NIK pathway.

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.

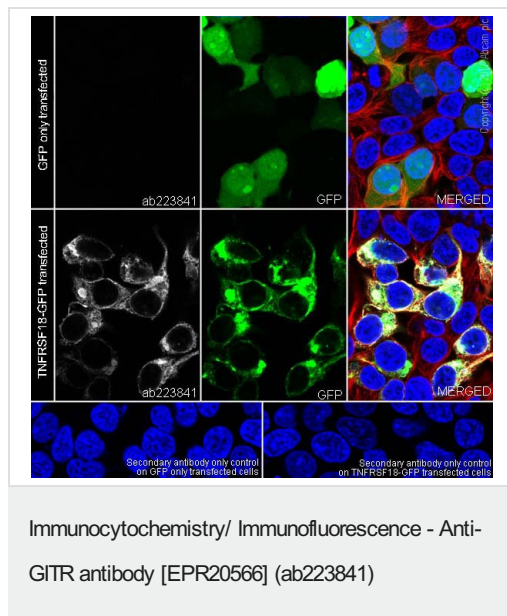
Images



Immunohistochemical analysis of paraffin-embedded human Hodgkin's lymphoma tissue labeling GITR with ab223841 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining in sporadic cells (arrows) in human Hodgkin's lymphoma (PMID: 25787078; PMID: 23785514). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

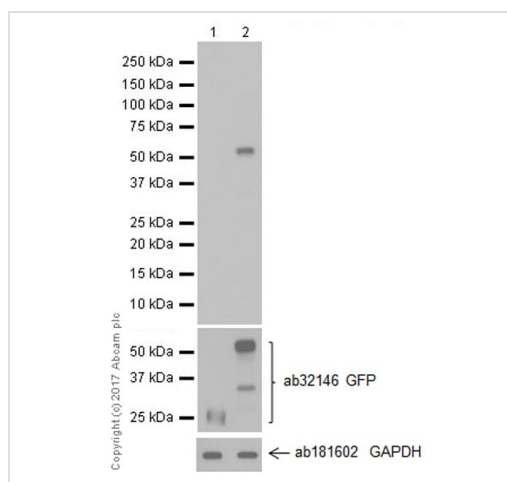
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunofluorescent analysis of 4% paraformaldehyde-fixed 0.1% Triton X-100 permeabilized HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) cells, transfected with GFP only or with GFP-tagged GITR expression vector, labeling GITR with ab223841 at 1/500 dilution followed by by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 647) ([ab150079](#)) secondary antibody (white) at 1/500 dilution. Confocal image showing cytoplasmic staining in HEK-293T cells transfected with GFP-tagged GITR expression vector.

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) ([ab195889](#)) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 647) ([ab150079](#)) secondary antibody at 1/500 dilution.



All lanes : Anti-GITR antibody [EPR20566] (ab223841) at 1/1000 dilution

Lane 1 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with an empty vector (vector control) containing a Myc-GFP-tag whole cell lysate

Lane 2 : HEK-293T (human epithelial cell line from embryonic kidney transformed with large T antigen) transfected with human GITR, containing a Myc-GFP-tag, whole cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/100000 dilution

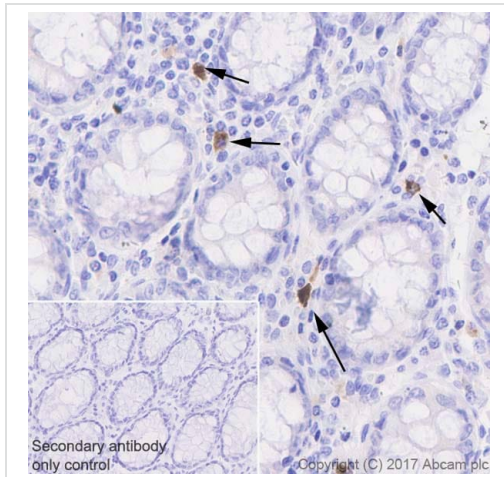
Developed using the ECL technique.

Predicted band size: 26 kDa

Observed band size: 52 kDa

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDm/TBST.

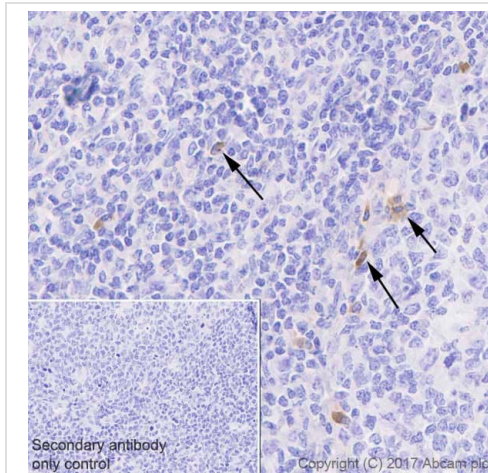


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GITR antibody [EPR20566] (ab223841)

Immunohistochemical analysis of paraffin-embedded human colon tissue labeling GITR with ab223841 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining in stromal cells (arrows) in human colon (PMID: 25787078; PMID: 23785514). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GITR antibody [EPR20566] (ab223841)

Immunohistochemical analysis of paraffin-embedded human tonsil tissue labeling GITR using ab223841 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Cytoplasmic staining in sporadic cells (arrows) in human tonsil (PMID: 25787078; PMID: 23785514). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-GITR antibody [EPR20566] (ab223841)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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