

# Product Datasheet

## **GITR/TNFRSF18 Antibody (DTA-1) - Chimeric - Azide and BSA Free** **NBP3-09031-0.2mg**

Unit Size: 0.2 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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**NBP3-09031-0.2mg**

GITR/TNFRSF18 Antibody (DTA-1) - Chimeric - Azide and BSA Free

Product Information	
Unit Size	0.2 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	DTA-1
Preservative	0.02% Proclin 300
Isotype	IgG Lambda
Purity	Protein A purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Rabbit GITR/TNFRSF18 Antibody (DTA-1) - Chimeric - Azide and BSA Free (NBP3-09031) is a recombinant monoclonal antibody validated for use in WB, Flow, ICC/IF and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	8784
Gene Symbol	TNFRSF18
Species	Mouse
Immunogen	This antibody was raised by immunising Wistar rats with the CD25+CD4+ T cell line. Hybridoma cells were generated by fusing spleen cells from the immunized rat with P3X63Ag8.653 myeloma cells, assessed for secreting antibodies capable of neutralizing in vitro CD25+CD4+ T cell-mediated suppression of anti-CD3-stimulated T cell proliferation <sup>9</sup> , and then cloned. This DTA-1 clone secreted a monoclonal rat immunoglobulin G2a (IgG2a) that showed high neutralizing activity.

Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Agonist Activity, Block/Neutralize
Recommended Dilutions	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Agonist Activity, Block/Neutralize



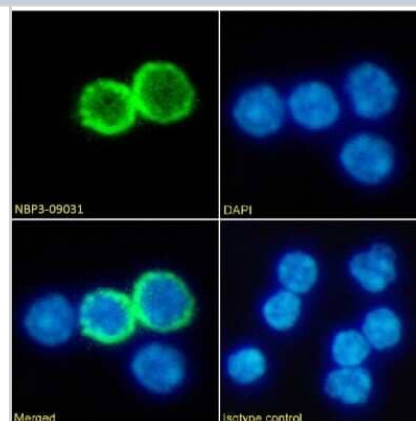
**Application Notes**

This chimeric rabbit antibody was made using the variable domain sequences of the original Rat IgG2b format, for improved compatibility with existing reagents, assays and techniques.

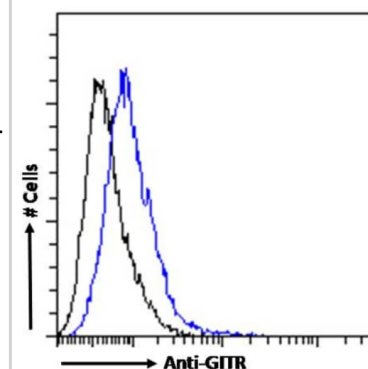
This antibody has been used in various FACS analyses for diverse immunological applications, such as to delineate how membrane-organizing protein moesin controls Treg differentiation and antitumor immunity via TGF- $\beta$  signaling (Ansa-Addo et al, 2017), to suggest the therapeutic potential of TGF- $\beta$ -induced Tregs (iTregs) in treating autoimmune gastritis (Nguyen et al, 2014), and to demonstrate that costimulation with the ligand of GITR elicits dose-dependent enrichment for cells of lower TCR affinity in the Treg cell repertoire (Mahmud et al, 2014). This antibody has also been used in Western Blots to elucidate the mechanism of human T-cell leukemia virus type 1 (HTLV-1) in the development of neoplastic and inflammatory diseases (Satou et al, 2011), and in immunoprecipitation analysis to aid the investigation of the role of GITR in dominant immunological self-tolerance maintained by CD25+CD4+ regulatory T cells (Shimizu et al, 2002). In addition, the anti-tumour effects of this agonistic anti-GITR antibody have been demonstrated in various murine models (Scirka et al, 2017; Coe et al, 2010; Cohen et al, 2010; Hu et al, 2008; Ko et al, 2005).

**Images**

**Immunocytochemistry/Immunofluorescence: GITR/TNFRSF18 Antibody (DTA-1) - Chimeric [NBP3-09031] - Immunofluorescence analysis of paraformaldehyde fixed mouse splenocytes on Shi-fix(TM) coverslips stained with the chimeric rabbit IgG version of DTA-1 (NBP3-09031) at 10 ug/ml for 1h followed by Alexa Fluor(R) 488 secondary antibody (2 ug/ml), showing membrane staining. The nuclear stain is DAPI (blue). Panels show from left-right, top-bottom NBP3-09031, DAPI, merged channels and an isotype control. The isotype control was an unknown specificity antibody followed by staining with Alexa Fluor(R) 488 secondary antibody.**



**Flow Cytometry: GITR/TNFRSF18 Antibody (DTA-1) - Chimeric - Azide and BSA Free [NBP3-09031] - Paraformaldehyde fixed mouse splenocytes were stained with anti-unknown specificity antibody (isotype control, black line) or NBP3-09031 (blue line) at a dilution of 1:100 for 1h at RT. After washing, the bound antibody was detected using a goat anti-rabbit IgG AlexaFluor 488 antibody at a dilution of 1:1000 and cells analyzed using a FACSCanto flow-cytometer.**





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### **Products Related to NBP3-09031-0.2mg**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-52215-0.05mg	Recombinant Human GITR/TNFRSF18 His Protein

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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