

Datasheet for ABIN2656684

Recombinant anti-ARTC2 Nanobody antibody



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2 Images

Overview

Quantity:	1 mg
Target:	ARTC2 Nanobody
Reactivity:	Mouse
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Application:	Intracellular Flow Cytometry (ICFC)

Product Details

Brand:	Treg-Protector™
Immunogen:	Expression vector encoding full length mouse ARTC2.
Clone:	S-16a
Isotype:	Ig Fraction
Fragment:	single-domain Antibody (sdAb)
Characteristics:	ARTC2, also known as ART2.2, is a 35 kD, GPI-anchored, and cell surface ADP-ribosyltransferase that is highly expressed by regulatory T cells (Tregs) and natural killer T (NKT) cells. ARTC2 is enzymatically active at 4°C. Through the ribosylation of the ion channel P2X7, ARTC2 mediates NAD ⁺ -induced cell death (NICD) and the proteolytic shedding of CD27 and CD62L. Blocking the activity ARTC2 with Treg-Protector™ improves the recovery of Tregs and NKT cells during their isolation from lymphatic and peripheral tissues.
Purity:	≥ 95%, as determined by Coomassie stained SDS-PAGE.

Product Details

Endotoxin Level: Less than 0.01 ng of endotoxin/μg of protein, as determined by the LAL method.

Target Details

Target: ARTC2 Nanobody

Gene ID: 11872

Application Details

Application Notes: Treg-Protector™ (S+16a Nanobody) is a recombinant llama VH Ig domain that binds to the ADP-ribosyltransferase ARTC2, which reversibly blocks its enzymatic activity and protects ARTC2+ cells from NAD⁺-induced cell death (NICD), which is caused by the release of NAD⁺ by cells that die during the preparation of primary lymphocytes. The S+16a nanobody has been demonstrated to protect a variety of cell types including Tregs, NKT cells, and tissue-resident memory T cells.

Comment: We recommend diluting Treg-Protector™ 1:4 with sterile PBS and administer 200 μL (50 μg) intravenously (i.v.) of diluted Treg-Protector™ per mouse. Euthanize the mouse and begin the cell preparation 15 - 60 minutes after the injection. Intraperitoneal (IP) injection is also effective at similar doses (validated by developer).

Restrictions: For Research Use only

Handling

Concentration: 1.0 mg/mL

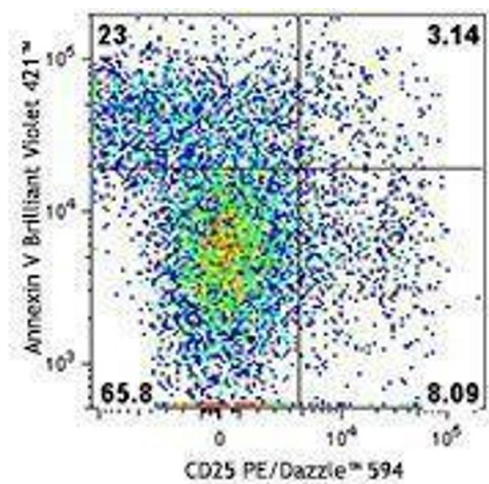
Buffer: 1 mg/mL S-16a in PBS Treg-Protector™ is sterilized by filtration through a 0.22 μm membrane and contains no preservatives.

Preservative: Without preservative

Handling Advice: Do not freeze. Keep sterile.

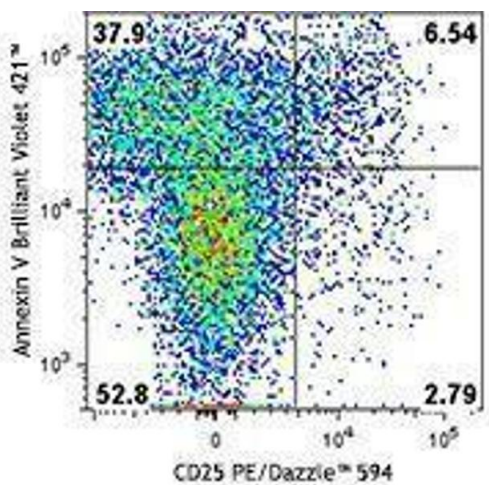
Storage: 4 °C

Storage Comment: Store between 2°C and 8°C. Do not freeze. Keep sterile.



Flow Cytometry

Image 1.



Flow Cytometry

Image 2.