

GARP Monoclonal Antibody (G14D9), Super Bright™ 600, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	G14D9
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 nm
Immunogen	A mixture of mGARP-Fc and hGARP 21H-F1 & -F2
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2735047

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/Test	-

Product Specific Information

Description: The G14D9 monoclonal antibody reacts with human Glycoprotein A Repetitions Predominant (GARP, also known as LRRC32 or Garpin). GARP is an approximately 80 kDa glycoprotein that is expressed on the cell surface. Using northern blot, RT-PCR or microarray analyses, the expression of GARP has been reported in placenta, lung, kidney, heart, ovary, liver, skeletal muscle, and pancreas. Protein expression has been observed on megakaryocytes, platelets and activated regulatory T (Treg) cells. The expression of GARP on the surface of activated Treg cells has been reported to be necessary for their suppressive function, possibly related to its role as a cell surface receptor for LAP/TGF beta.

Applications Reported: This G14D9 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This G14D9 antibody has been pre-diluted and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This may be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Super Bright 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 bandpass filter. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet

for Super Bright Staining Buffer for more information.

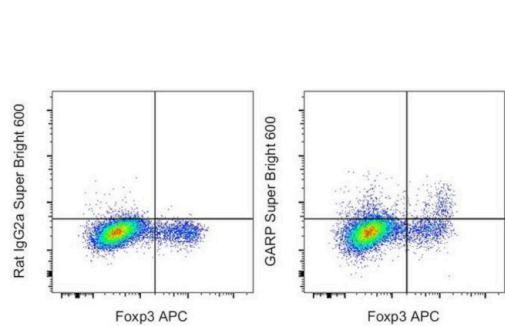
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; **Emission:** 600 nm; **Laser:** Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For GARP Monoclonal Antibody (G14D9), Super Bright™ 600, eBioscience™



GARP Antibody (63-9882-42) in Flow
Normal human peripheral blood cells were stimulated with immobilized Human CD3 Monoclonal Antibody, Functional Grade (Product # 16-0037-85), soluble Human CD28 Monoclonal Antibody, Functional Grade (Product # 16-0289-85), and Human IL-2 Recombinant Protein (Product # PHC0026) for 24 hours. Cells were stained for viability using eBioscience Fixable Viability Dye eFluor 780 (Product # 65-0865-14). Cells were then surface stained with CD4 Monoclonal Antibody eFluor 450 (Product # 48-0049-42) and Rat IgG2a kappa Isotype Control, Super Bright 600 (Product # 63-4321-82) (left) or GARP Monoclonal Antibody, Super Bright 600 (right). Cells were fixed and permeabilized with the Foxp3 Staining Buffer Set (Product # 00-5523-00) followed by intracellular staining with Human Foxp3 Monoclonal Antibody, APC (Product # 17-4776-42). Live CD4+ cells in the lymphocyte gate were used for analysis.

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