

GARP Monoclonal Antibody (G14D9), Super Bright™ 702, eBioscience™

Product Details	
Size	25 Tests
Species Reactivity	Human
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	G14D9
Conjugate	Super Bright™ 702
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_2762581

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/Test	1 Publication

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-titrated and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This can 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 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 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.

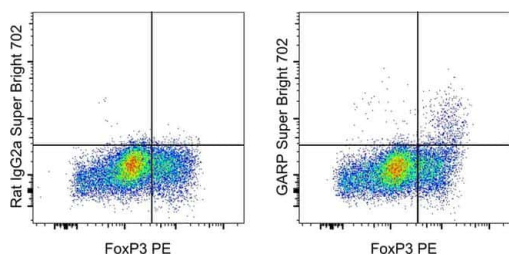
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L 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: 702 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™ 702, eBioscience™



GARP Antibody (67-9882-41) in Flow

Normal human peripheral blood cells were stimulated with immobilized Anti-Human CD3 Functional Grade (Product # 16-0037-85), soluble Anti-Human CD28 Functional Grade (Product # 16-0289-85), and Human IL-2 Recombinant Protein (Product # 68-8779-82) for 24 hours. Cells were surface stained with CD4 Monoclonal Antibody, eFluor 450 (Product # 48-0048-42) and Rat IgG2a kappa Isotype Control, Super Bright 702 (Product # 67-4321-82) (left) or GARP Monoclonal Antibody, Super Bright 702 (right). Cells were then fixed and permeabilized with the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) followed by intracellular staining with Foxp3 Monoclonal Antibody, PE (Product # 12-4776-42). Viable lymphocytes, as determined by Fixable Viability Dye eFluor® 780 (Product # 65-0865-14) were used for analysis.

1 Reference

Flow Cytometry (1)

Stem cells (Dayton, Ohio)

Mesenchymal stromal cells express GARP/LRRC32 on their surface: effects on their biology and immunomodulatory capacity.

"Published figure using GARP monoclonal antibody (Product # 67-9882-42) in Flow Cytometry"

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