# GARP Monoclonal Antibody (YGIC86), Super Bright™ 436, eBioscience™

| Product Details | |
|---|---|
| Size | 25 µg |
| Species Reactivity | Mouse |
| Host/Isotype | Rat / IgG2a, kappa |
| Recommended Isotype Control | Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 436, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | YGIC86 |
| Conjugate | Super Bright™ 436 |
| Form | Liquid |
| Concentration | 0.2 mg/mL |
| 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_2784842 |

| Applications | Tested Dilution | Publications |
|---|---|---|
| Flow Cytometry (Flow) | 1.0 µg/test | 1 Publication |

### Product Specific Information

Description: The YGIC86 monoclonal antibody reacts with mouse 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 Treg cells has been reported to be necessary for the suppressive function of Treg cells, possibly related to its role as a cell surface receptor for LAP/TGF beta.

When looking for expression of GARP on platelets, it is recommended to use the Foxp3 Staining Buffer Set (cat. 00-5523) to fix the platelets before staining with this YGIC86 monoclonal antibody. Fixation/permeabilization is not necessary when staining Treg cells.

YGIC86 does not cross-react to rat GARP.

Applications Reported: This YGIC86 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This YGIC86 antibody has been tested by flow cytometric analysis of stimulated mouse splenocytes. This may be used at less than or equal to 1.0 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

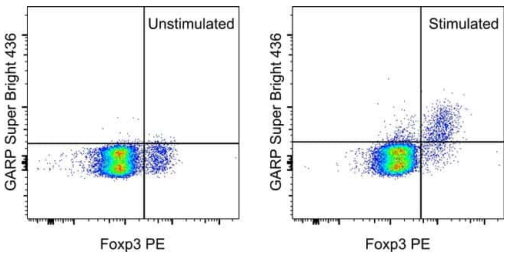
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

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.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

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

## Product Images For GARP Monoclonal Antibody (YGIC86), Super Bright™ 436, eBioscience™




**GARP Antibody (62-9891-80) in Flow**
C57BL/6 mouse splenocytes were unstimulated (left) or stimulated for 1 day with Anti-Mouse CD3e and Anti-Mouse CD28 Functional Grade Purified Monoclonal Antibodies (Product # 16-0031-82 and 16-0281-82, respectively), and Mouse IL-2 Recombinant Protein (Product # 14-8021-64) (right). Cells were then surface-stained with with Anti-Mouse CD4 PE-Cyanine7 (Product # 25-0042-82) and 0.5 µg of GARP Monoclonal Antibody, Super Bright 436, followed by intracellular staining using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol with Foxp3 Monoclonal Antibody, PE (Product # 12-5773-82). Cells in the lymphocyte gate 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 # 62-9891-82) in Flow Cytometry"

Authors: Carrillo-Galvez AB,Cobo M,Cuevas-Ocaña S,Gutiérrez-Guerrero A,Sánchez-Gilabert A,Bongarzone P,García-Pérez A,Muñoz P,Benabdellah K,Toscano MG,Martín F,Anderson P

**Year**
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