

GARP Monoclonal Antibody (G14D9), PE-Cyanine7, eBioscience™

Product Details	
Size	25 Tests
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE-Cyanine7, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	G14D9
Conjugate	PE-Cyanine7
Excitation/Emission Max	569/780 nm
Immunogen	A mixture of mGARP-Fc and hGARP 21H-F1 & -F2
Form	Liquid
Concentration	5 µL/Test
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2573559

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (1 µg)/test	2 Publications

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 (1 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.

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 # 00-822-49) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-54) 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: 488-561 nm; **Emission:** 775 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

2 References

Flow Cytometry (2)

<p>Stem cells (Dayton, Ohio)</p> <p>Mesenchymal stromal cells express GARP/LRRC32 on their surface: effects on their biology and immunomodulatory capacity.</p> <p>"Published figure using GARP monoclonal antibody (Product # 25-9882-42) in Flow Cytometry"</p> <p>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</p>	<p>Year</p> <p>2015</p>
<p>European journal of immunology</p> <p>Phenotypic and functional characteristics of CD4+ CD39+ FOXP3+ and CD4+ CD39+ FOXP3neg T-cell subsets in cancer patients.</p> <p>Authors: Schuler PJ,Schilling B,Harasymczuk M,Hoffmann TK,Johnson J,Lang S,Whiteside TL</p>	<p>Year</p> <p>2012</p>

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