

CD235a (Glycophorin A) Monoclonal Antibody (HIR2 (GA-R2)), Super Bright™ 645, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), Super Bright™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	HIR2 (GA-R2)
Conjugate	Super Bright™ 645
Excitation/Emission Max	414/645 nm
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_2717121

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.03 µg)/test	17 Publications

Product Specific Information

Description: The HIR2 monoclonal antibody reacts with human glycophorin A, a sialoglycoprotein expressed by erythroid precursors and mature circulating red cells.

Applications Reported: This HIR2 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This HIR2 antibody has been pre-diluted and tested by flow cytometric analysis of normal human peripheral blood cells. This may be used at 5 µL (0.03 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 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 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.

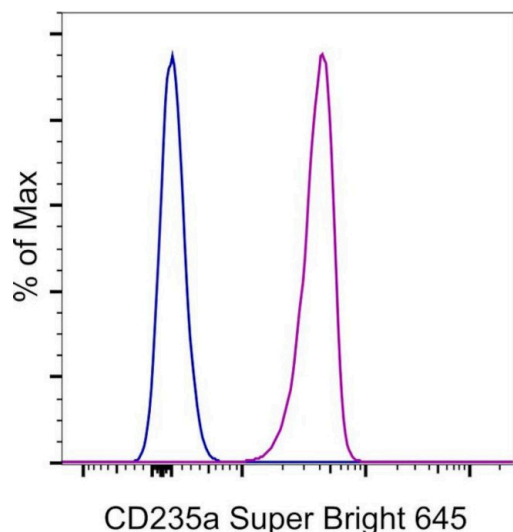
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL of IC Fixation

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: 645 nm; Laser: Violet Laser

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

Product Images For CD235a (Glycophorin A) Monoclonal Antibody (HIR2 (GA-R2)), Super Bright™ 645, eBioscience™



CD235a (Glycophorin A) Antibody (64-9987-42) in Flow

Normal human peripheral blood cells were stained with staining buffer (autofluorescence) (blue histogram) or CD235a Monoclonal Antibody, Super Bright 645 (Product # 64-9987-42) (purple histogram). All non-leukocytes were used for analysis.

[View more figures on thermofisher.com](#)

17 References

Flow Cytometry (17)

Annals of translational medicine

Human serum albumin promotes self-renewal and expansion of umbilical cord blood CD34⁺ hematopoietic stem/progenitor cells.

"Published figure using CD235a (Glycophorin A) monoclonal antibody (Product # 64-9987-42) in Flow Cytometry"

Authors: Hua J, Jiao T, Qiao Y, Zhang S, Xiao T, Zhang Y, Yan J

Year
2023

Frontiers in cell and developmental biology

Autophagy regulated by the HIF/REDD1/mTORC1 signaling is progressively increased during erythroid differentiation under hypoxia.

"Published figure using CD235a (Glycophorin A) monoclonal antibody (Product # 64-9987-42) in Flow Cytometry"

Authors: Li J, Quan C, He YL, Cao Y, Chen Y, Wang YF, Wu LY

Year
2022

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More applications with references on thermofisher.com

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