

## PE/Cyanine7 anti-human CD235ab Antibody

<b>Catalog# / Size</b>	306619 / 25 µg 306620 / 100 µg
<b>Clone</b>	HIR2
<b>Regulatory Status</b>	RUO
<b>Workshop</b>	VII 70299
<b>Other Names</b>	Glycophorin A/B, GPA/GPB
<b>Isotype</b>	Mouse IgG2b, κ
<b>Description</b>	The HIR2 antibody reacts with a common epitope of glycophorin A (CD235a) and glycophorin B (CD235b). Glycophorin A is the major sialoglycoprotein expressed on red blood cell membrane, and erythroid precursors. Glycophorin A shares strong homology with glycophorin B. The HIR2 antibody recognizes human RBCs and erythroid precursors and is useful in erythroid cell development studies. Mature, non-nucleated red blood cells are characteristically glycophorin A positive, but CD45 and CD71 negative.

### Product Details

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<b>Verified Reactivity</b>	Human
<b>Reported Reactivity</b>	African Green, Baboon
<b>Antibody Type</b>	Monoclonal
<b>Host Species</b>	Mouse
<b>Formulation</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Preparation</b>	The antibody was purified by affinity chromatography and conjugated with PE/Cyanine7 under optimal conditions.
<b>Concentration</b>	0.2 mg/ml
<b>Storage &amp; Handling</b>	The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. <b>Do not freeze.</b>
<b>Application</b>	<a href="#">FC - Quality tested</a>
<b>Recommended Usage</b>	Each lot of this antibody is quality control tested by <a href="#">immunofluorescent staining with flow cytometric analysis</a> . For flow cytometric staining, the suggested use of this reagent is = 0.02 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.
<b>Excitation Laser</b>	Blue Laser (488 nm) Green Laser (532 nm)/Yellow-Green Laser (561 nm)
<b>Additional Product Notes</b>	BioLegend is in the process of converting the name PE/Cy7 to PE/Cyanine7. The dye molecule remains the same, so you should expect the same quality and performance from our PE/Cyanine7 products. Please contact <a href="#">Technical Service</a> if you have any questions.
<b>Application References</b>	1. Mason D, <i>et al.</i> Eds. 2002. Leucocyte Typing VII. Oxford University Press. New York.
<b>(PubMed link indicates BioLegend citation)</b>	
<b>Product Citations</b>	1. Worthen CA, <i>et al.</i> 2020. J Invest Dermatol. 140:2515. <a href="#">PubMed</a> 2. Peslak SA, <i>et al.</i> 2020. Blood Adv. 3.3333333333. <a href="#">PubMed</a>
<b>RRID</b>	AB_2716163 (BioLegend Cat. No. 306619) AB_2716164 (BioLegend Cat. No. 306620)

## Antigen Details

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<b>Structure</b>	Sialoglycoprotein, 20 kD
<b>Distribution</b>	Erythrocytes
<b>Cell Type</b>	Erythrocytes
<b>Biology Area</b>	Immunology
<b>Molecular Family</b>	CD Molecules
<b>Antigen References</b>	1. Mason D, <i>et al.</i> Eds. 2002. Leucocyte Typing VII. Oxford University Press. New York.
<b>Gene ID</b>	<a href="#">2993</a>

## Related Protocols

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[Cell Surface Flow Cytometry Staining Protocol](#)

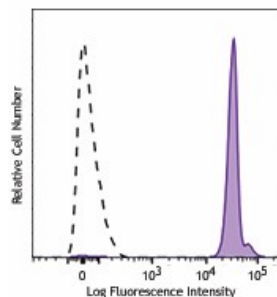
## Other Formats

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APC anti-human CD235ab, PE anti-human CD235ab, PE/Cyanine5 anti-human CD235ab, Purified anti-human CD235ab, FITC anti-human CD235ab, Pacific Blue™ anti-human CD235ab, PerCP/Cyanine5.5 anti-human CD235ab, Purified anti-human CD235ab (Maxpar® Ready), Biotin anti-human CD235ab, PE/Cyanine7 anti-human CD235ab, APC/Fire™ 750 anti-human CD235ab, TotalSeq™-A0196 anti-human CD235ab, TotalSeq™-C0196 anti-human CD235ab, TotalSeq™-B0196 anti-human CD235ab, TotalSeq™-D0196 anti-human CD235ab

## Product Data

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Human erythrocytes were first treated with Human TruStain FcX™ then stained with clone HIR2 PE/Cyanine7 (filled histogram) or mouse IgG2b, ? PE/Cyanine7 isotype control (dashed histogram).

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