SONY

Product Data Sheet

Pacific Blue™ anti-human CD235ab

Catalog # / Size: 2133055 / 25 µg
2133060 / 100 µg

Clone: HIR2

Isotype: Mouse IgG2b, κ

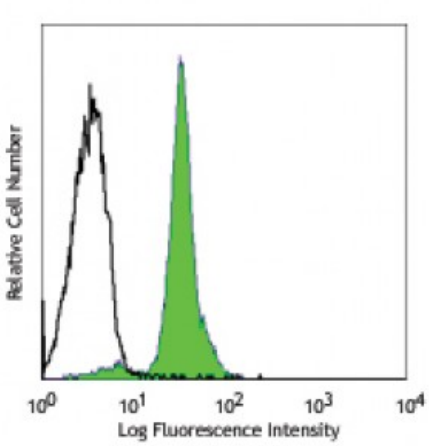
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with Pacific Blue™ under optimal conditions. The solution is free of unconjugated Pacific Blue™.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Workshop Number: VII 70299

Concentration: 0.5



Human erythrocytes stained with HIR2 Pacific Blue™

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤ 0.015 microg per 10^6 cells in 100 microL volume or 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Pacific Blue™ has a maximum emission of 455 nm when it is excited at 405 nm. Prior to using Pacific Blue™ conjugate for flow cytometric analysis, please verify your flow cytometer's capability of exciting and detecting the fluorochrome.

Application References:
1. Mason D, *et al.* Eds. 2002. Leucocyte Typing VII. Oxford University Press. New York.
2. Ochi K, 2014. *Stem Cells Transl Med.* 3:792. PubMed

Description: 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.

Antigen References:
1. Mason D, *et al.* Eds. 2002. Leucocyte Typing VII. Oxford University Press. New York.

Sony Biotechnology Inc. 1730 North First Street, San Jose, CA 95112 www.sonybiotechnology.com