

Technical Data Sheet

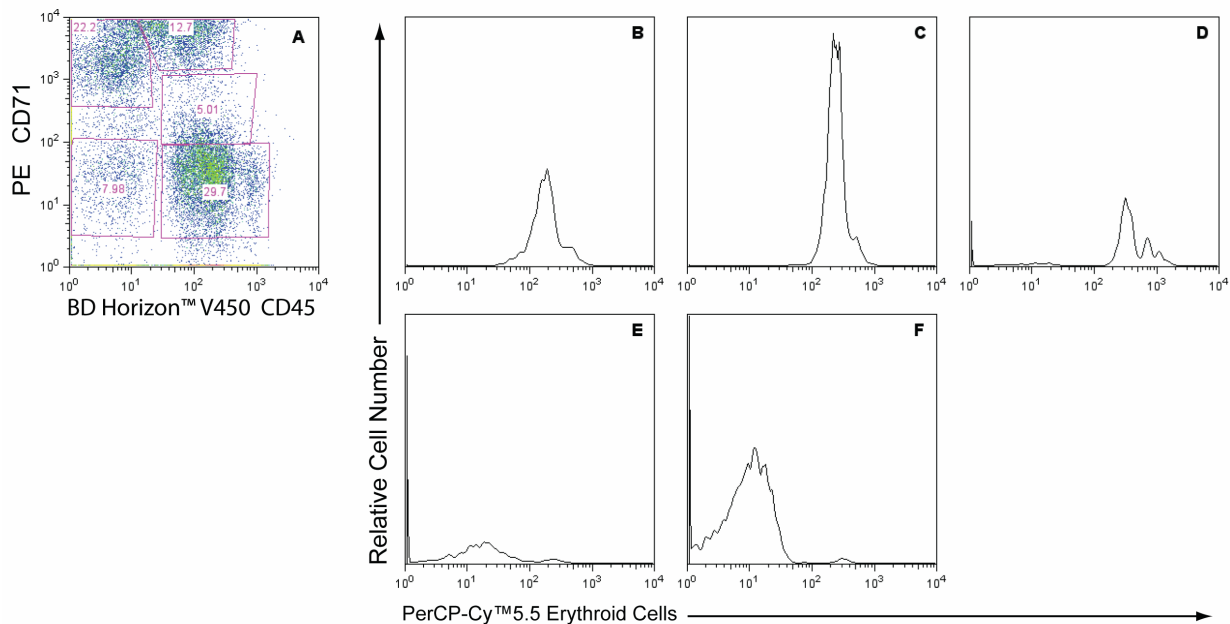
PerCP-Cy™5.5 Mouse Anti-Rat Erythroid Cells

Product Information

Material Number:	562359
Size:	50 µg
Concentration:	0.2 mg/ml
Clone:	HIS49
Immunogen:	Rat bone marrow cells
Isotype:	Mouse (BALB/c) IgM, κ
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing protein stabilizer and ≤0.09% sodium azide.

Description

The HIS49 antibody reacts with an antigen found on erythrocytes and erythroid progenitors, but not on granulocytes, monocytes, or lymphocytes.



**Three-color flow cytometric analysis of erythroid cells in rat bone marrow.** LEW rat bone marrow cells were simultaneously stained with PE Mouse Anti-Rat CD71 (Cat. No. 554891), BD Horizon™ V450 Mouse Anti-Rat CD45 (Cat. No. 561587), and PerCP-Cy™5.5 Mouse Anti-Rat Erythroid Cells (Cat. No. 562359) antibodies. The two-color dot plot of CD45 versus CD71 expression is displayed in Panel A. The remaining panels (Panels B-F) display histograms of Erythroid Cells antigen expression on the gated subpopulations shown in Panel A: Panel B, CD45+ CD71+ bright immature erythroid cells; Panel C, CD45- CD71+ maturing erythroid cells; Panel D, CD45- CD71- erythrocytes; Panel E, CD45+ CD71+ hematopoietic progenitors; and Panel F, CD45+ CD71- leukocytes. Flow cytometry was performed using a BD™ LSR II Flow Cytometer System.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with PerCP-Cy5.5 under optimum conditions, and unconjugated antibody and free PerCP-Cy5.5 were removed. Storage of PerCP-Cy5.5 conjugates in unoptimized diluent is not recommended and may result in loss of signal intensity.

Application Notes

Application

Flow cytometry	Routinely Tested
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## Suggested Companion Products

Catalog Number	Name	Size	Clone
554656	Stain Buffer (FBS)	500 ml	(none)
554891	PE Mouse Anti-Rat CD71	0.2 mg	OX-26
561587	V450 Mouse Anti-Rat CD45	50 µg	OX-1
560857	PerCP-Cy <sup>TM</sup> 5.5 Mouse IgM, κ Isotype Control	0.1 mg	G155-228

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please observe the following precautions: Absorption of visible light can significantly alter the energy transfer occurring in any tandem fluorochrome conjugate; therefore, we recommend that special precautions be taken (such as wrapping vials, tubes, or racks in aluminum foil) to prevent exposure of conjugated reagents, including cells stained with those reagents, to room illumination.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. PerCP-Cy5.5-labelled antibodies can be used with FITC- and R-PE-labelled reagents in single-laser flow cytometers with no significant spectral overlap of PerCP-Cy5.5, FITC, and R-PE fluorescence.
5. PerCP-Cy5.5 is optimized for use with a single argon ion laser emitting 488-nm light. Because of the broad absorption spectrum of the tandem fluorochrome, extra care must be taken when using dual-laser cytometers, which may directly excite both PerCP and Cy5.5<sup>TM</sup>. We recommend the use of cross-beam compensation during data acquisition or software compensation during data analysis.
6. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at [www.bdbiosciences.com/colors](http://www.bdbiosciences.com/colors).
7. This product is subject to proprietary rights of Amersham Biosciences Corp. and Carnegie Mellon University and made and sold under license from Amersham Biosciences Corp. This product is licensed for sale only for research. It is not licensed for any other use. If you require a commercial license to use this product and do not have one return this material, unopened to BD Biosciences, 10975 Torreyana Rd, San Diego, CA 92121 and any money paid for the material will be refunded.
8. Cy is a trademark of Amersham Biosciences Limited. This conjugated product is sold under license to the following patents: US Patent Nos. 5,486,616; 5,569,587; 5,569,766; 5,627,027.
9. An isotype control should be used at the same concentration as the antibody of interest.
10. Please refer to [www.bdbiosciences.com/pharming/en/protocols](http://www.bdbiosciences.com/pharming/en/protocols) for technical protocols.

## References

Hermans MH, Opstelten D. In situ visualization of hemopoietic cell subsets and stromal elements in rat and mouse bone marrow by immunostaining of frozen sections. *J Histochem Cytochem.* 1991; 39(12):1627-1634. (Immunogen: Immunofluorescence, Immunohistochemistry)

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