


PRODUCT INFORMATION SHEET

Monoclonal antibodies detecting human antigens

Anti-Hemoglobin F (HbF)

R-PE ASR REF IQP-578R CONC 25 µg/ml

ASR Analyte Specific Reagent, analytical and performance characteristics are not established. The product comply with the ASR definitions of the U.S. Food & Drug Administration (FDA).

	Description
Clone	NaM16-2F4
Isotype	IgG1
Specificity	The HbF antibody recognized the γ -chain of the human hemoglobin. Reactivity is seen with human fetal erythrocytes, adult F cells (adult erythrocytes expressing hemoglobin F), and nucleated red cell precursors containing HbF. No binding is observed with other forms of human hemoglobin, such as HbA and HbS.

Application Flow cytometry

Representative Data

NaM16-2F4 was analyzed by flow cytometry on a blood sample using fetal red blood cells (RBCs) mixed with normal adult peripheral blood cells. RBCs were fixed, permeabilized, and stained with anti-HbF PE. The results show a good recovery of fetal blood cells in accordance with the expected value.

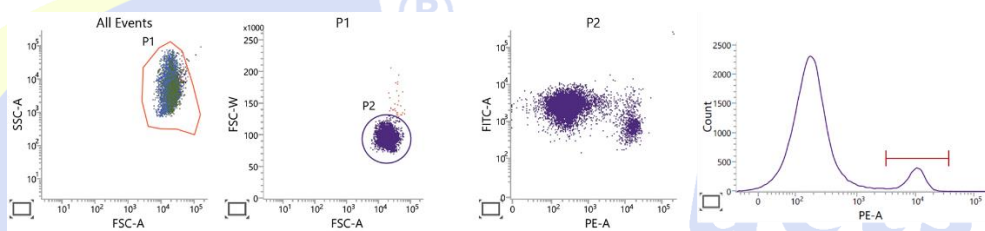


Figure: Flow cytometry data of an adult blood sample spiked with fetal blood cells.



bright fluorescence

Handling and Storage

Antibodies are supplied in 0.01 M sodium phosphate, 0.15 M NaCl; pH 7.3, 0.2% BSA, 0.09% sodium azide (NaN₃). Store the vials at 2-8 °C. Monoclonal antibodies should be protected from prolonged exposure to light. Reagents are stable for the period shown on the vial label when stored properly.

Warranty Products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, which extend beyond the description on the label of the product. IQ Products is not liable for property damage, personal injury, or economic loss caused by the product.

Characterization












To ensure consistently high-quality reagents, each batch of monoclonal antibody is tested for conformance with characteristics of a standard reagent. Representative flow cytometric data is included in this data sheet.

Warning All products contain sodium azide. This chemical is poisonous and hazardous. Handling should be done by trained staff only.

References

1. M. Maier-Redelsperger, C.T. Noguchi, M. de-Montalembert, G.P. Rodgers, A.N. Schechter, A. Gourbil, et al. Variation in fetal hemoglobin parameters and predicted hemoglobin S polymerization in sickle cell children in the first two years of life: parisian prospective study on sickle cell disease Blood, 84 (9) (1994), pp. 3182-3188.
 2. Navenot JM, Merghoub T, Ducrocq R, Muller JY, Krishnamoorthy R, Blanchard D. New method for quantitative determination of fetal hemoglobin-containing red blood cells by flow cytometry: application to sickle-cell disease. Cytometry. 1998; 32(3): 186-190.
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Explanation of used symbols

	Consult instructions for use
	Catalogue number
	Sufficient for
	Caution, consult accompanying document
	Keep away from (sun)light
	Biological risks
	Temperature limitation (°C)
	Analyte Specific Reagent
	Batch code
	Use by yyyy-mm-dd
	Manufacturer

	Conjugates		Ex -max (nm)	Em -max (nm)
P	PURE	Unconjugated antibody	-	-
F	FITC	Fluorescein Isothiocyanate	488	519
R	R-PE	R-Phycoerythrin	488, 532	578
C	CyQ	Tandem conjugate of R-PE-and Cy5.18	488, 532	667
A	APC	Allophycocyanin	595, 633, 635, 647	660
D	Dy-410	Violet Dye 410	405	460
PC	PerCP	Peridinin-chlorophyll-protein	488, 532	678



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