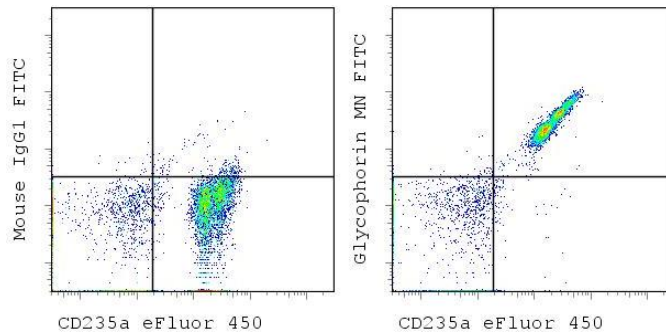


## Anti-Human Glycophorin A (MN) FITC

**Catalog Number:** 11-9886

**Also known as:** CD235a

**RUO: For Research Use Only. Not for use in diagnostic procedures.**



Staining of normal human peripheral blood cells with Anti-Human CD235 eFluor<sup>®</sup> 450 and Mouse IgG1 K Isotype Control FITC (cat. 11-4714) (left) or Anti-Human Glycophorin A (MN) FITC (right). Red blood cell gate was used for analysis.

### Product Information

**Contents:** Anti-Human Glycophorin A (MN) FITC

**REF** **Catalog Number:** 11-9886

**Clone:** 10F7MN

**Concentration:** 5  $\mu$ L (0.25  $\mu$ g)/test

**Host/Isotype:** Mouse IgG1, kappa

**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light-sensitive material.

**Batch Code:** Refer to vial

**Use By:** Refer to vial



### Description

The monoclonal antibody 10F7MN recognizes human glycophorin A (also known as CD235a). The antibody can see both the M and N alleles. Glycophorin A is a 151 amino acid sialoglycoprotein found on the erythrocyte (RBC) and erythroid progenitor cell membrane at about 500,000 copies per cell. The gene for glycophorin resides on chromosome 4 and has 2 allelic forms: M and N, which differ in two amino acids. The M group possesses Ser1 and Gly5 while the N group has Leu1 and Glu5. Recent data suggest that exposure to toxins can cause mutation or loss of an allele resulting in phenotypic changes. Studies are also beginning to correlate genotype/phenotype with predisposition to cancer and heart disease.

### Applications Reported

This 10F7MN antibody has been reported for use in flow cytometric analysis.

### Applications Tested

This 10F7MN antibody has been pre-titrated and tested by flow cytometric analysis of normal human blood cells. This can be used at 5  $\mu$ L (0.25  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from  $10^5$  to  $10^8$  cells/test.

### References

Lansdorp PM, Dragowska W. Long-term erythropoiesis from constant numbers of CD34+ cells in serum-free cultures initiated with highly purified progenitor cells from human bone marrow. *J Exp Med.* 1992 Jun 1;175(6):1501-9.

Langlois RG, Bigbee WL, Jensen RH. Flow cytometric characterization of normal and variant cells with monoclonal antibodies specific for glycophorin A. *J Immunol.* 1985 Jun;134(6):4009-17.

### Related Products

11-4714 Mouse IgG1 K Isotype Control FITC (P3.6.2.8.1)

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