

## Datasheet

### GYPA monoclonal antibody, clone HIR2 (FITC)

**Catalog Number:** MAB4392

**Regulatory Status:** For research use only (RUO)

**Product Description:** Mouse monoclonal antibody raised against synthetic peptide of GYPA.

**Clone Name:** HIR2

**Immunogen:** A synthetic peptide corresponding to N-terminus of human GYPA.

**Host:** Mouse

**Reactivity:** Human

**Applications:** Agg, Flow Cyt, IHC-Fr  
(See our web site product page for detailed applications information)

**Protocols:** See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

**Specificity:** This antibody recognizes N-terminal portion of glycoprotein A (and weakly of glycoprotein B). Its antigen is expressed on early erythroblasts, late erythroblasts, erythroblasts, mature erythrocytes and the cells of erythroid cell lines K562 and HEL, but not on all other cells.

**Form:** Liquid

**Conjugation:** FITC

**Isotype:** IgG2b

**Recommend Usage:** Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10<sup>6</sup> cells in a suspension)

The optimal working dilution should be determined by the end user.

**Storage Buffer:** In PBS (0.2% BSA, 0.09% sodium azide)

**Storage Instruction:** Store in the dark at 4°C. Do not

freeze.

Avoid prolonged exposure to light.

Aliquot to avoid repeated freezing and thawing.

**Entrez GeneID:** 2993

**Gene Symbol:** GYPA

**Gene Alias:** CD235a, GPA, GPERik, GPSAT, GpMiIII, HGpMiIII, HGpMiV, HGpMiX, HGpMiXI, HGpSta(C), MN, MNS

**Gene Summary:** Glycophorins A (GYPA) and B (GYPB) are major sialoglycoproteins of the human erythrocyte membrane which bear the antigenic determinants for the MN and Ss blood groups. In addition to the M or N and S or s antigens that commonly occur in all populations, about 40 related variant phenotypes have been identified. These variants include all the variants of the Miltenberger complex and several isoforms of Sta, as well as Dantu, Sat, He, Mg, and deletion variants Ena, S-s-U- and Mk. Most of the variants are the result of gene recombinations between GYPA and GYPB. [provided by RefSeq]

#### References:

1. Inverted erythrocyte membranes demonstrate ?2GPI-antiphospholipid antibody interactions and membrane crosslinking. Bloemen S, Wu XX, Devreese KM, de Laat B, Rand JH, Vasovic LV. *Thromb Res.* 2016 Sep 10;146:89-94.
2. Hsa, an adhesin of *Streptococcus gordonii* DL1, binds to alpha2-3-linked sialic acid on glycoprotein A of the erythrocyte membrane. Yajima A, Urano-Tashiro Y, Shimazu K, Takashima E, Takahashi Y, Konishi K. *Microbiol Immunol.* 2008 Feb;52(2):69-77.
3. Flow cytometric analysis of human bone marrow perfusion cultures: erythroid development and relationship with burst-forming units-erythroid. Rogers CE, Bradley MS, Palsson BO, Koller MR. *Exp Hematol.* 1996 Apr;24(5):597-604.