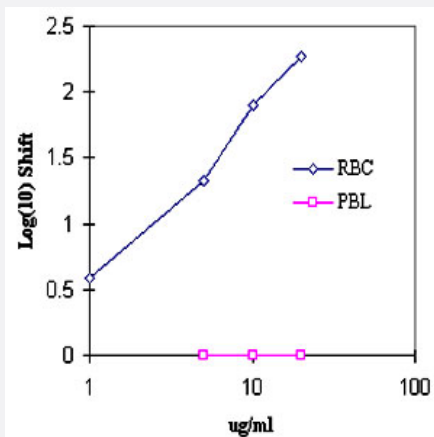


# GYPA monoclonal antibody, clone A63-B/C2

Catalog # MAB6932

Size 100 ug

## Applications



### Flow Cytometry

107 human red blood cells were washed and preincubated 5 minutes with 20 uL of 250 ug/mL human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80uL of anti-CD235a (Glycophorin A) /Biotin at 20 ug/mL. Cells were washed twice and incubated with Streptavidin/R-Phycoerythrin, after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 2.27 log10 fluorescent units when compared to a Mouse IgM/Biotin negative control at a similar concentration. Binding was 82% blocked when pre incubated 10 minutes with 20 uL of 0.5 mg/mL GYPA monoclonal antibody, clone A63-B/C2 (Cat # MAB6932).

## Specification

Product Description	Mouse monoclonal antibody raised against native GYPA.
Immunogen	Native purified GYPA from neuraminidase treated human erythrocytes.
Host	Mouse
Reactivity	Human
Form	Liquid
Isotype	IgM
Recommend Usage	The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM sodium phosphate buffer, 100 mM potassium Chloride, 150 mM NaCl, pH 7.5 (0.5 mg/mL gentamicin sulfate)
Storage Instruction	Store at 4°C.

## Applications

### ● Flow Cytometry

$10^7$  human red blood cells were washed and preincubated 5 minutes with 20 uL of 250 ug/mL human IgG (to block non specific binding) after which they were incubated 45 minutes on ice with 80ul of anti-CD235a (Glycophorin A) /Biotin at 20 ug/mL. Cells were washed twice and incubated with Streptavidin/R-Phycoerythrin, after which they were washed three times, fixed and analyzed by FACS. Cells stained positive with a mean shift of 2.27 log10 fluorescent units when compared to a Mouse IgM/Biotin negative control at a similar concentration. Binding was 82% blocked when pre incubated 10 minutes with 20 uL of 0.5 mg/mL GYPA monoclonal antibody, clone A63-B/C2 (Cat # MAB6932).

## Gene Info — GYPA

Entrez GeneID	<a href="#">2993</a>
Gene Name	GYPA
Gene Alias	CD235a, GPA, GPERik, GPSAT, GpMiIII, HGpMiIII, HGpMiV, HGpMiX, HGpMiXI, HGpSta(C), MN, MNS
Gene Description	glycophorin A (MNS blood group)
Omim ID	<a href="#">111300 611162</a>
Gene Ontology	<a href="#">Hyperlink</a>
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]
Other Designations	Mi.V glycoprotein (24 AA) erythroid-lineage-specific membrane sialoglycoprotein glycophorin A glycophorin A (MN blood group) glycophorin A MNS blood group glycophorin A, GPA glycophorin Erik glycophorin MiI glycophorin MiIII glycophorin MiV glycophorin Mi

## Publication Reference

- [The expression of human blood group antigens during erythropoiesis in a cell culture system.](#)

Southcott MJ, Tanner MJ, Anstee DJ.

Blood 1999 Jun; 93(12):4425.

Application: Flow Cyt, Human, Human placental cord blood cells

- [High-efficiency gene transfer into ex vivo expanded human hematopoietic progenitors and precursor cells by adenovirus vectors.](#)

Frey BM, Hackett NR, Bergelson JM, Finberg R, Crystal RG, Moore MA, Rafii S.

Blood 1998 Apr; 91(8):2781.

- [Characterization of a bipotent erythro-megakaryocytic progenitor in human bone marrow.](#)

N Debili, L Coulombel, L Croisille, A Katz, J Guichard, J Breton-Gorius, W Vainchenker.

Blood 1996 Aug; 88(4):1284.

Application: Flow Cyt, Human, Human bone marrow cells

## Pathway

- [Hematopoietic cell lineage](#)

## Disease

- [Asthma](#)
- [Crohn Disease](#)
- [Genetic Predisposition to Disease](#)
- [Malaria](#)