GYPA monoclonal antibody, clone HIR2 (FITC)

Catalog # MAB4392 Size 100 Reactions

Specification

Product Description	Mouse monoclonal antibody raised against synthetic peptide of GYPA.
Immunogen	A synthetic peptide corresponding to N-terminus of human GYPA.
Host	Mouse
Reactivity	Human
Specificity	This antibody recognizes N-terminal portion of glycophorin A (and weakly of glycophorin B). Its antige n is expressed on early erythroblasts, late erythroblasts, erythroblasts, mature erythrocytes and the ce lls 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 10^6 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.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Frozen sections)
- Agglutination

- Flow Cytometry

Gene Info — GYPA

Entrez GeneID	2993
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	111300 611162
Gene Ontology	Hyperlink
Gene Summary	Glycophorins A (GYPA) and B (GYPB) are major sialoglycoproteins of the human erythrocyte me mbrane 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 phenot ypes 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 b y RefSeq
Other Designations	Mi.V glycoprotein (24 AA)|erythroid-lineage-specific membrane sialoglycoprotein|glycophorin A|gl ycophorin A (MN blood group)|glycophorin A MNS blood group|glycophorin A, GPA|glycophorin E rik|glycophorin MiII|glycophorin MiIII|glycophorin MiV|glycophorin Mi

Publication Reference

- Inverted erythrocyte membranes demonstrate β2GPI-antiphospholipid antibody interactions and membrane crosslinking.

  Bloemen S, Wu XX, Devreese KM, de Laat B, Rand JH, Vasovic LV.

  Thrombosis Research 2016 Sep; 146:89.

  Application: Flow Cyt, Human, Human erythrocyte

- Hsa, an adhesin of Streptococcus gordonii DL1, binds to alpha2-3-linked sialic acid on glycophorin A of the erythrocyte membrane.

  Yajima A, Urano-Tashiro Y, Shimazu K, Takashima E, Takahashi Y, Konishi K.

  Microbiology and Immunology 2008 Feb; 52(2):69.

- 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.

Pathway

- Hematopoietic cell lineage

Disease

- Asthma
- Crohn Disease
- Genetic Predisposition to Disease
- Malaria