Mouse Anti-CD236/Glycophorin C [Ret40f]: MC0321

Intended Use: For Research Use Only

Description: Glycophorin C (GYPC or CD236) is an integral membrane glycoprotein. It is a minor species carried by human erythrocytes, but plays an important role in regulating the mechanical stability of red cells. A number of glycophorin C mutations have been described. The Gerbich and Yus phenotypes are due to deletion of exon 3 and 2, respectively. The Webb and Duch antigens, also known as glycophorin D, result from single point mutations of the glycophorin C gene. The glycophorin C protein has very little homology with glycophorins A and B. Alternate splicing results in multiple transcript variants. This protein is a minor sialoglycoprotein in human erythrocyte membranes. The blood group Gerbich antigens and receptors for Plasmodium falciparum merozoites are most likely located within the extracellular domain. Glycophorin-C plays an important role in regulating the stability of red cells.

Specifications

Clone:	Ret40f
Source:	Mouse
Reactivity:	Human
Isotype:	IgG1k
Localization:	Membrane
Formulation:	Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
Storage:	Store at 2°- 8°C
Applications:	IHC

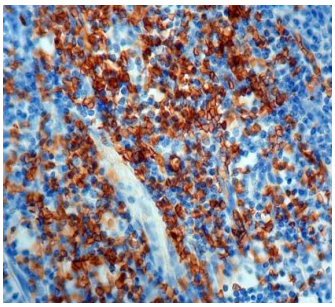
Package:

Description	Catalog No.	Size
CD236/Glycophorin C Concentrated	MC0321	1 ml

IHC Procedure*

Positive Control Tissue:	Tonsil
Concentrated Dilution:	10-50
Pretreatment:	Citrate pH6.0 or EDTA pH8.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
Incubation Time and Temp:	30 minutes @ RT
Detection:	Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-CD236/Glycophorin C using DAB

References:

1. Glycophorin-C sialylation regulates Lu/BCAM adhesive capacity during erythrocyte aging. Klei TRL et al. Blood Adv. 2018.
2. Cytokine release assays for the prediction of therapeutic mAb safety in first-in man trials--Whole blood cytokine release assays are poorly predictive for TGN1412 cytokine storm. Vessillier S et al. J Immunol Methods. 2015.
3. Identification of the membrane attachment sites for protein 4.1 in the human erythrocyte. Hemming NJ et al. J Biol Chem. 1995.

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