Caprico Biotechnologies

TECHNICAL DATA SHEET

CD235a (GYPA280)

Type	Size	Catalog number
Unconjugated	100µg	104301
	500µg	104303
FITC	25µg	104311
	100µg	104317
PE	25µg	104321
	100µg	104327
APC	25 tests	104344
	100 tests	104345
	200 tests	104346
Biotin	100µg	104351

Antigen: CD235a
Immunogen: Recombinant human glycophorin A protein
Host/Isotype: Mouse, IgG1, κ
Reactivity: Human
Purity: >90% pure tested via polyacrylamide gel electrophoresis (PAGE)
Formulation: PBS, pH7.2, 0.09% NaN_3 (unconjugated, Biotin)
PBS, pH7.2, 0.09% NaN_3, 0.2% (w/v) BSA (conjugated)
Storage: Store at 2-8°C and protected from prolonged exposure to light. **Do not freeze.**
Applications: Flow Cytometry

Application Information

Each lot of this antibody has been pre-titrated and tested by flow cytometric analysis using human blood such that ≤ 0.5µg (unconjugated, Biotin) or 5µl (Fluorophore conjugated) of these products are sufficient for staining 1 million RBCs in 100µl staining volume. However, it is recommended that antibody reactivity be empirically titrated for optimal performance in the application of interest.

Antigen Information

CD235a recognizes a 39kd sialoglycoprotein identified as glycophorin A. It is abundantly expressed on red blood cells and erythroid precursor cells. It has been shown that glycophorin acts on the erythrocyte binding antigen (EBA-175) of P. falciparum as well as the receptor for Sandei virus, parvovirus, influenza virus and hepatitis A virus. Two types of glycophorins are identified and classified as glycophorin A (GPA) and glycophorin B (GPB). Both are trans-membrane sialoglycoproteins. GPA is the career of M and N antigens specific blood group whereas GPB is for the S and U specificities.

References

1. Anderson, LC et al 1979, Int. J. Cancer, 23:717-720
2. Liszka, K et al 1983. Am. J. Hematol. 15:219-226.
3. Reid ME, 2009. Immunohematology 25:95-101.
4. Palacajornsuk P. 2006. Immunohematology 22:171.
5. Pasvol G. 2003. Trends Parasitol. 19:430.

Caprico Biotechnologies, 400 Pinnacle Way, Suite 430, Norcross, GA 30071
Phone: +1 (678) 691-2143 Technical Support Ext 102, Fax: (678) 691-2223
Email: techsupport@capricobio.com
www.CapricoBio.com

Feb. 2019

Terms and Conditions

This product is for research use only (RUO) and not intended for diagnostic testing.

Caprico Biotechnologies, 400 Pinnacle Way, Suite 430, Norcross, GA 30071
Phone: +1 (678) 691-2143 Technical Support Ext 102, Fax: (678) 691-2223
Email: techsupport@capricobio.com
www.CapricoBio.com