

Anti-Mouse/Rat CD61 (Integrin beta 3) SAFIRE Purified

Catalog Number :03712-25

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: 2C9.G3

Format/Conjugate: SAFIRE Purified

Concentration: 1 mg/mL

Reactivity: Mouse, Rat

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

Isotype: Armenian Hamster IgG

Formulation: Phosphate-buffered aqueous solution, pH7.2.

Storage: Product should be kept at 2-8°C.

Applications: FC, FA

Description

The 2C9.G3 monoclonal antibody specifically reacts with the mouse/rat CD61 molecule, known as the integrin beta 3 that forms the vitronectin receptor with CD51. The complex binds to other ligands such as fibrinogen, fibronectin, thrombospondin, and von Willebrand factor. It is expressed by granulocytes, platelets, activated T cells, smooth muscle, and a subset of B cells.

Preparation & Storage

The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/μg of the protein.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Vaillant, F., Asselin-Labat, M. L., Shackleton, M., Forrest, N. C., Lindeman, G. J., Visvader, J. E. (2008). The mammary progenitor marker CD61/β3 integrin identifies cancer stem cells in mouse models of mammary tumorigenesis. *Cancer research*,;68(19), 7711-7717.
2. Yasuda, M., Hasunuma, Y., Adachi, H., Sekine, C., Sakanishi, T., Hashimoto, H., ... Okumura, K. (1995). Expression and function of fibronectin binding integrins on rat mast cells. *International immunology*,;7(2), 251-258.
3. Wu, X., Mogford, J. E., Platts, S. H., Davis, G. E., Meininger, G. A., Davis, M. J. (1998). Modulation of calcium current in arteriolar smooth muscle by αvβ3 and α5β1 integrin ligands. *The Journal of cell biology*,;143(1), 241-252.