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Technical Data Sheet

Anti-Mouse CD49b (Integrin alpha 2) SAFIRE Purified

Catalog Number :11512-25

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

Product Information

Clone: HMa2

Format/Conjugate: SAFIRE Purified

Concentration: 1 mg/mL

Reactivity: Mouse

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 HMa2 monoclonal antibody specifically reacts with mouse CD49b (integrin alpha 2), a 150kDA transmembrane glycoprotein that forms the VLA-2 complex with CD29 (integrin beta 1). VLA-2 is expressed on NK-T cells, epithelial cells, platelets, and CD+4 T lymphocytes. It is the receptor for laminin and collagen and is upregulated in response to mitogens. The Hma2 antibody is reported to partially block the interaction with collagen in T cells, but not NK cells.

Preparation & Storage

The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinitychromatography. 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.Arase, H., Saito, T., Phillips, J. H., Lanier, L. L. (2001). Cutting edge: the mouse NK cell-associated antigen recognized by DX5 moncoclonal antibody is CD49b (α2 integrin, very late antigen-2).;The Journal of Immunology,;167(3), 1141-1144.

2. Miyake, S., Sakurai, T., Okumura, K., Yagita, H. (1994). Identification of collagen and laminin receptor integrins on murine T lymphocytes.;European journal of immunology,;24(9), 2000-2005.

3. Noto, K., Kato, K., Okumura, K., Yagita, H. (1995). Identification and functional characterization of mouse CD29 with a mAb.;International immunology,;7(5), 835-842.

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