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Technical Data Sheet

Anti-Human CD178 (Fas-L) Biotin

Catalog Number :20811-30

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

Product Information

Clone: NOK-1

Format/Conjugate: Biotin

Concentration: 0.5 mg/mL

Reactivity: Human

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

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

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The NOK-1 monoclonal antibody specifically reacts with human CD178, which is the CD95 or Fas ligand. CD178 is a TNF superfamily type II transmembrane glycoprotein expressed by activated T and NK cells and is involved in Fas-mediated apoptosis of lymphocytes. CD178 is also expressed by monocytes, neutrophils, granulocytes and the parenchymal cells of the retina and cornea. The NOK-1 antibody has been reported to bind to COOH-terminus of the Fas ligand in the region associated with Fas binding.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.25 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1.Kayagaki, N., Kawasaki, A., Ebata, T., Ohmoto, H., Ikeda, S., Inoue, S., ... Yagita, H. (1995). Metalloproteinase-mediated release of human Fas ligand.The Journal of experimental medicine,;182(6), 1777-1783.

2. Oyaizu, N., Adachi, Y., Hashimoto, F., McCloskey, T. W., Hosaka, N., Kayagaki, N., ... Pahwa, S. (1997). Monocytes express Fas ligand upon CD4 cross-linking and induce CD4+ T cells apoptosis: a possible mechanism of bystander cell death in HIV infection.;The Journal of Immunology,;158(5), 2456-2463.

3. Villunger, A., Egle, A., Marschitz, I., Kos, M., Böck, G., Ludwig, H., ... Greil, R. (1997). Constitutive expression of Fas (Apo-1/CD95) ligand on multiple myeloma cells: a potential mechanism of tumor-induced suppression of immune surveillance.;Blood,;90(1), 12-20.

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