

Anti-Human CD8a Purified

Catalog Number :10111-20

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

Product Information

Clone: Hit8a

Format/Conjugate: Purified

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, IHC

Description

The Hit8a monoclonal antibody reacts with the human CD8a molecule, a 32 kDa cell surface receptor expressed either as a heterodimer (CD8 α/β) or as a homodimer (CD8 α/α) on the majority of thymocytes, a subpopulation of mature T cells, and natural killer cells. CD8 interacts with the major histocompatibility complex class I (MHC class I) molecules on antigen-presenting cells or epithelial cells. The Hit8a antibody reacts with 13-48% of peripheral lymphocytes, 80% of thymocytes, and a subset of natural killer cells.

HIT8a, RPA-T8, and OKT8 antibodies do not compete with each other for binding to peripheral leukocytes, meaning that they do not recognize the same epitope or block each other by steric hindrance.

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. It is recommended that the reagent be titrated for optimal performance for each application.

References

- Schlossman, S., L. Bloumsell, et al. eds (1995). Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York
- Barclay, A. N., Brown, M. H., Law, S. A. K. A., McKnight, A. J., Tomlinson, M. G., van der Merwe, P. A. (1997). The leucocyte antigen factsbook. Academic Press.