

## Anti-Human CD1a PE

Catalogue Number : 03111-60

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

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### Product Information

**Clone:** HI149

**Format/Conjugate:** PE

**Concentration:** 0.5 mg/mL

**Reactivity:** Human

**Laser:** Blue (488nm), Yellow/Green (532-561nm)

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

**Brightness (1=dim,5=brightest):** 5

**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.

**Applications:** FC

### Description

The HI149 monoclonal antibody specifically reacts with human CD1a, a 49kDA type I membrane glycoprotein. It is expressed on dendritic cells, Langerhans cells, and cortical thymocytes. CD1a plays a role in antigen presentation and, like MHC Class I, it non-covalently associates with Beta2-microglobulin.

### 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. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

### References

1. Leucocyte typing IV: white cell differentiation antigens. Oxford University Press, 1989.
2. Schlossman, S. F. (1995). Leucocyte typing V: White cell differentiation antigens: Proceedings of the Fifth International Workshop and Conference, Held in Boston, USA 3-7 November, 1993. Oxford University Press.
3. Hanau, D., Schmitt, D. A., Bieber, T., Schmitt, D., ; Cazenave, J. P. (1990). Possible mechanism of action of CD1a antigens.; Journal of investigative dermatology,;95(5), 503-505.