



Antibody to **CD1a (Cluster Differentiation Marker)**

Cat. No. **VP-C312**

Product Specifications

Description:

CD1a mouse monoclonal antibody

Immunoglobulin class: IgG1, Kappa

Clone: MTB1

Immunogen: Recombinant protein representing the full external domain of the CD1a molecule.

Epitope: Not determined. Some cross reaction with CD1b.

Presentation:

1 ml liquid tissue culture supernatant containing 15mM sodium azide.

Species cross-reactivity: Human

Storage Conditions:

Keep unopened vial at 2 - 8 °C for 1 year. Once opened it is recommended that the stock solution be aliquoted and quick frozen and stored at -20 °C. Do not repeatedly freeze/thaw.

Selected References

Aractingi S, Gluckman E, Dauge-Geffroy MC, et al.. Langerhans' cells are depleted in chronic graft versus host disease. *J Clin Pathol.* 50: 305-309 (1997).

Bobryshev Y V, Lord R S, Rainer S, et al.. Vascular dendritic cells and atherosclerosis. *Pathol Res Pract.* 192: 462-467 (1996).

Mazal P R, Hainfellner J A, Preiser J, et al.. Langerhans' cell histiocytosis of the hypothalamus: diagnostic value of immunohistochemistry. *Clin Neuropathol.* 15: 87-91 (1996).

Möller G M, Overbeek S E, van Helden-Meeuwse C G, et al.. Increased numbers of dendritic cells in the bronchial mucosa of atopic asthmatic patients: downregulation by inhaled corticosteroids. *Clin. Exp. Allergy.* 26: 517-524 (1996).

Blumberg R S, Gerdes D, Chott A, et al.. Structure and function of the CD1 family of MHC-like cell surface proteins. *Immunological Reviews.* 147: 5-29 (1995)

Shinzato M, Shamoto M, Hosokawa S, et al.. Differentiation of Langerhans cells from interdigitating cells using CD1a and S-100 protein antibodies. *Biotech Histochem.* 70(3): 114-118 (1995).

Applications:

Immunohistochemistry

Paraffin sections: Antigen unmasking recommended.
Frozen sections: Acetone fixation.

Working Dilution*: 1:15 - 1:30 for 1 hr. at 25 °C
Positive Control: Skin and thymus. Membrane staining pattern.

Western blotting Not recommended.

* Recommended dilutions using VECTASTAIN® *Elite*® ABC Kits.

Functional Aspects:

CD1a is expressed on dendritic cells, cortical thymocytes and Langerhans cells and certain interdigitating cells. This antibody will help identify these cell types and CD1a expression in uncharacterized tissues.