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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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CD1a, human (O10) - Nordic MUBio

nordicmubio.com/product/cd1a-human-o10

CD1a, human (O10)

Catalogue number: **CD1A-O10**

| | |
|--------------|---------------------------------|
| Clone | O10 |
| Isotype | IgG1 |
| Product Type | Primary Antibodies |
| Units | 1 ml |
| Host | Mouse |
| Application | Immunohistochemistry (paraffin) |

Background

Clone O10 is well suited for labelling of CD1a in different tissues. It is used for the detection of Langerhans-Cells and dendritic cells in the skin and other tissues. Up to now CD1 has been identified as five different variants encoded by 5 different genes (they are designed as CD1a, b, c, d and e). CD1 is exprimed by cortical thymocytes, Langerhans cells in epithelia and dendric cells. Usually it doesn't occur in mature peripheral blood cells, but is exprimed intra-cytoplasmatically in activated T-cells. CD1a plays a role in the detection of graft versus host reaction, in the detection of interdigitating cells in artereosclerotic lesion and in asthmatic inflammation. Human CD1a, possible cross-reactivity with CD1b.

Source

Immunogen: Human thymocytes

Product

Protein G affinity purified IgG in PBS pH 7.3 with BSA and sodium azide (0.09%)

Purification Method: Protein G affinity purified IgG in PBS pH 7.3 with BSA and sodium azide (0.09%)

Concentration: 50 µg/ml

Secondary Reagents: We recommend the use of BIOLOGO's Universal Staining System DAB (Art. No. DA005) or AEC (Art. No. AE005).

Specificity

Species Reactivity: Human

Applications

IHC(P)

Incubation Time: 60 min at RT

Working Concentration: (liquid conc.) 1-4 µg/ml

Pre-Treatment: Pre-treatment of formaldehyde-fixed material should be treated with Unmasking Solution E, TRIS-buffered EDTA pH 9 (Art. No. DE006) at 96-100°C

Positive Control: Skin, tonsil

Storage

2-8°C

Caution

This product is intended FOR RESEARCH USE ONLY, and FOR TESTS IN VITRO, not for use in diagnostic or therapeutic procedures involving humans or animals. It may contain hazardous ingredients. Please refer to the Safety Data Sheets (SDS) for additional information and proper handling procedures. Dispose product remainders according to local regulations. This datasheet is as accurate as reasonably achievable, but Nordic-MUBio accepts no liability for any inaccuracies or omissions in this information.

References

1. Hunger RE, Sieling PA, Ochoa MT, Sugaya M, Burdick AE, Rea TH, Brennan PJ, Belisle JT, Blauvelt A, Porcelli SA, Modlin RL. Langerhans cells utilize CD1a and langerin to efficiently present nonpeptide antigens to T cells. *J Clin Invest.* 2004 Mar;113(5):701-8.
2. Takagi S, Miyagawa S, Ichikawa E, Soeda J, Miwa S, Miyagawa Y, Iijima S, Noike T, Kobayashi A, Kawasaki S. Dendritic cells, T-cell infiltration, and Grp94 expression in cholangiocellular carcinoma. *Hum Pathol.* 2004 Jul;35(7):881-6.
3. Poindexter NJ, Sahin A, Hunt KK, Grimm EA. Analysis of dendritic cells in tumor-free and tumor-containing sentinel lymph nodes from patients with breast cancer. *Breast Cancer Res.* 2004;6(4):R408-15.
4. Mazal PR, Hainfellner JA, Preiser J, Czech T, Simonitsch I, Radaszkiewicz T, Budka H. Langerhans cell histiocytosis of the hypothalamus: diagnostic value of immunohistochemistry. *Clin Neuropathol.* 1996 Mar-Apr;15(2):87-91.
5. Krenacs, L. et al. (1993) Immunohistochemical detection of CD1a antigen in formalin-fixed and paraffin-embedded tissue sections with monoclonal antibody O10. *J. Pathol.* 171: 99-104.

Safety Datasheet(s) for this product:

NM_Sodium Azide

[/wp-content/uploads/SDS/Antibody SDS with Sodium Azide Noridic-MUbio.pdf](#)