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Produktinformation



Forschungsprodukte & Biochemikalien



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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 (MTB1) - Nordic MUBio

nordicmubio.com/product/cd1a-human-mtb1

CD1a, human (MTB1)

Catalogue number: **CD1A-MTB**

Clone	MTB1
Isotype	IgG1,k
Product Type	Primary Antibodies
Units	1 ml
Host	Mouse
Application	Immunohistochemistry (paraffin)

Background

Clone MTB1 labels cortical thymocytes, Langerhans-Cells in the skin as well as interdigitating cells in the dermis and in squamous epithelia of tonsils. It labels also a small group of cells outside the germinal center of tonsils, which indicates a possible cross-reactivity with CD1b. 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 expressed by cortical thymocytes, Langerhans cells in epithelia and dendritic cells. Usually it doesn't occur in mature peripheral blood cells, but is expressed 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: Recombinant protein corresponding to full length extracellular CD1a domain

Product

Cell culture supernatant containing 0.09% sodium azide as preservative

Purification Method: Cell culture supernatant containing 0.09% sodium azide as preservative

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.) 1:20-1:40

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: Thymus

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. Bobryshev YV, Lord RS. Langerhans cells of human arterial intima: uniform by stellate appearance but different by nature. *Tissue Cell.* 1996 Apr;28(2):177-94.

Safety Datasheet(s) for this product:

NM_Sodium Azide

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