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COMBI IC Reagent: Mouse anti Myeloperoxidase-C2 (FITC) and Mouse anti CD3 (PE)

nordicmubio.com/products/COMBI-IC-Reagent-Mouse-anti-Myeloperoxidase-C2-FITC-and-Mouse-anti-CD3-PE-/GIC-213

Catalog number: **GIC-213**

Clone	8E6 and UCHT1
Isotype	IgG1
Product Type	Primary Antibodies
Units	1 ml
Host	Mouse
Species Reactivity	Human
Application	Flow Cytometry

Background

Myeloperoxidase (MPO) is a glycoprotein present in the azurophil (primary) granules of myeloid cells, which appears in the myeloblast stage of myeloid cell differentiation. MPO is the most common functional protein of myeloid cells and is involved in the inflammatory response. It helps to kill microbes by breaking down peroxide in the presence of halide ions, contributing to the bactericidal function of granulocytes. The primary translation product of MPO undergoes glycosylation with production of the 89 kDa heme-free apopro-MPO form followed by incorporation of heme and conversion into the enzymatically active pro-MPO form. Subsequently, pro-MPO becomes targeted to azurophil granules where final processing occurs to produce mature dimeric MPO consisting of the 59-64 kDa MPO a-chain and the 14 kDa MPO b-chain. Precursor T-cells are surface CD3 negative but positive for cytoplasmic CD3. All mature T cells are both cytoplasmic and surface CD3 positive. The combined staining for MPO and CD3 allows the distinction of cells derived from the myeloid lineage that are generally MPO positive, from immature and mature T lymphocytes during normal and malignant hematopoiesis. The MPO-C2/CD3 COMBI-IC reagent permits the identification and enumeration of normal and malignant human blood and bone marrow cells using flow cytometry. Results must be interpreted by a certified professional before final interpretation. Analyses

performed with this antibody should be paralleled by positive and negative controls. If unexpected results are obtained which cannot be attributed to differences in laboratory procedures, please contact us.

Product

1ml of FITC-conjugated anti Myeloperoxidase-C2 (clone 8E6) and PE-conjugated anti CD3 (clone UCHT1) in PBS pH 7.2, 1% BSA, and 0.05% NaN₃, approximately 50 tests.

Product Form: FITC and PE

Formulation: PBS pH 7.2, 1 mg/ml BSA, 0.05% NaN₃

Specificity

Antibody MPO-C2 (clone 8E2) reacts with human myeloperoxidase (MPO) expressed by normal and malignant myelomonocytic cells. The CD3 mAb (clone UCHT1) recognizes cytoplasmatic CD3 epsilon in precursor T-cells and cytoplasmic and surface CD3 epsilon in mature T-lymphocytes. In this COMBI-IC Reagent antibody 8E6 is conjugated to FITC, antibody UCHT1 is conjugated to Phycoerythrin (PE).

Applications

Permeabilization and Staining Procedure - In combination with our Permeabilization Kit FIX&PERM[®] (Cat. No. GAS-002) intracellular MPO-C2 and CD3 can be easily stained in cell suspensions - For each sample to be analyzed add 50 µl of whole blood, bone marrow or mononuclear cell suspension in a 5 ml tube - Add 100 µl of Reagent A (Fixation Medium, stored and used at room temperature) - Incubate for 15 minutes at room temperature - Add 5 ml phosphate buffered saline and centrifuge cells for 5 minutes at 300 g - Remove supernatant and add to cell pellet 100 µl Reagent B (Permeabilization Medium) and 20 µl of the MPO-C2/CD3 COMBI-IC monoclonal antibody conjugate - Vortex at low speed for 1-2 seconds - Incubate for 15 minutes at room temperature - Wash cells with phosphate buffered saline as described above - Remove supernatant and resuspend cells in sheath fluid for immediate analysis or resuspend cells in 0.5 ml 1.0 % formaldehyde and store them at 2-8°C in the dark. Analyze fixed cells within 24 hours

Storage

Nordic-MUbio monoclonal antibody reagents contain optimal concentrations of affinity-purified antibody. For stability reasons this monoclonal antibody solution contains sodium azide. These reagents should be stored at 2-8°C (DO NOT FREEZE!) and protected from prolonged exposure to light. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance or the concentration of the product. Stability of the reagent: Please refer to the expiry date printed onto the vial. The use of the reagent after the expiration date is not recommended.

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 Exalpa Biologicals accepts no liability for any inaccuracies or omissions in this information.

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Warranty

The products sold hereunder are warranted only to conform to the quantity and contents stated on the label at the time of delivery to the customer. There are no warranties, expressed or implied, that extend beyond the description on the label of the product. Exalpa's sole liability is limited to either replacement of the products or refund of the purchase price. Exalpa is not liable for property damage, personal injury, or economic loss caused by the product.

Safety Datasheet(s) for this product:

NM_Sodium Azide

