# Anti-Human HLA-DR (GRB-1)





PURF







1 mg/ml





HI ADRPU 1 ma HLADRF-100T 100 test 20 µL/test 2 mg/ml HLADRPE-100T 100 test 20 µL/test 2 mg/ml HLADRA-100T 100 test 20 µL/test 2 mg/ml



### 1. PRODUCT DESCRIPTION

Clone: GRB-1:

Isotype: IgG1;

Tested application: flow cytometry;

Immunogen: The anti-HLA-DR monoclonal antibody derives from mononuclear cell leukemia acute undifferentiated;

Species reactivity: Human;

Storage instruction: store in the dark at 2-8 °C;

Storage buffer: aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaNa);

Recommended usage: Immunostep's HLA-DR, clone GRB-I, is a monoclonal antibody intended for the identification and enumeration of all human B cells, monocytes and activated T cells using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 106 cells;

Presentation: liquid;

**Source**: Supernatant proceeding from an in vitro cell culture of a cell hybridoma:

Purification: Affinity chromatography;

Other names: Major Histocompatibility Class II, MHC class II;

Gene ID: 3122:

Molecular weight: 36 kDa.

#### 2. ANTIGEN DETAILS

Large description: This antibody reacts with the HLA-DR-antigen of human B lymphocytes. The antibody reacts with the cells of the monocytic lineage, with myeloblasts and promyelocytes and the cells of B lymphocyte lineage. Polymorphonuclear leukocytes and platelets are found negative(1-6).

## WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

# ADDITIONAL INFORMATION

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## 5. **PROTOCOL**

## Direct Immunofluorescence Cell Surface Staining Protocol

- 1. Transfer 100 ul (106 cells/test) of the sample to a 12 x 75 mm polystyrene
- 2. Add the suggested volume indicated on the antibody vial to the 12x75 mm
- 3. Mix well and incubate in the dark at room temperature at 4 °C for 30 minutes or at room temperature (20-25 °C) for 15 minutes.
- 4. After the incubation period, add 1,5 ml of an erythrocyte-lysing solution and mix. Incubate at room temperature in the darkness (the blood should be well mixed with the lysing solution).
- 5. Centrifuge tubes at 540xg for 5 minutes. The supernatant is removed with a Pasteur pipette or with a vacuum pump.
- 6. Resuspend and wash with 3-5 mL of PBS at 540xg for 5 min.
- 7. After removing the supernatant and resuspending the cell pellet, add 300  $\mu L$  of PBS and adquire on the flow cytometer are recorded.
- 8. Analyse on a flow cytometer or store at 2-8 °C in the dark until analysis. Samples can be run up to 24 hours after lysis.

## Indirect Immunofluorescence Cell Surface Staining Protocol

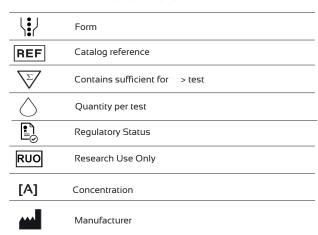
- 1. Transfer 100 ul (106 cells/test) of the sample to a 12 x 75 mm polystyrene test
- 2. Add purified reagent according to manufacturer's recommendation and mix gently with a vortex mixer.
- 3. Incubate in the dark at room temperature at 4 °C for 30 minutes or at room temperature (20-25 °C) for 15 minutes.
- 4. Add 2 mL 0.01 mol/L PBS (It betters that it containing 2% bovine serum albumin) and resuspend the cells by using a vortex mixer. Centrifuge at 540xg for 5 min in order to remove the McAb not bound to its antigen.
- 5. Add a secondary conjugated reagent with some fluorochrome and mix. Incubate at room temperature for 15 min in the dark. The absence of light is necessary as the fluorochrome is photoinstability.
- 6. After the incubation period, add 1,5 ml of an erythrocyte-lysing solution and mix. Incubate at room temperature in the darkness (the blood should be well mixed with the lysing solution). Centrifuge at 540xg for 5 minutes. The supernatant is removed with a Pasteur pipette or with a vacuum pump.
- 7. Resuspend and a made a final wash with 3-5 mL of PBS at 540xg for 5 min.
- 8. After removing the supernatant and resuspending the cell pellet, add 300 µL of PBS and adquire on the flow cytometer are recorded.
- 9. Analyse on a flow cytometer or store at 2-8 °C in the dark until analysis. Samples can be run up to 24 hours after lysis.

## 6. REFERENCES

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## 7. **EXPLANATION OF SYMBOLS**



### 8. MANUFACTURED BY:



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