

# anti-human HLA-DR

## Monoclonal Antibody HI159 to HLA-DR (Human)

Cat-No: **21818991**

100 µg in 100 µl

**Clone:** HI159

**Specificity:** The antibody HI159 recognizes a 28 and 34 kD  $\alpha$ ,  $\beta$  heterodimer glycoprotein named class II major histocompatibility complex (or human leukocyte antigen) DR monomorphic antigen expressed on hematopoietic progenitors, B lymphocytes, monocytes/macrophages, dendritic cells, langerhans cells, activated T cells, some endothelial and epithelial cells, but not on resting T lymphocytes, erythrocytes and platelets. HLA-DR antigen is also expressed at high levels on B lymphocyte leukemic cells and cells of CML-LBC, at moderate levels on the cells of AML-M1/M2, M4 and M5, but not or little on the cells of AML-M3 and CML.

**Isotype subclass:** Mouse IgG1

**Form:** Purified from ascites by protein-G affinity chromatography.

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS containing 0.09 % sodium azide (pH 7.2).

**Expiration date:** The reagent is stable until the expiry date stated on the vial label.

**Storage conditions:** Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

**Application:** Flow Cytometry, Immunohistochemistry (frozen/paraffin sections)

### References:

\* Tadimitsu K, K. Hitoshi, A.E.G.Kr. van dem Borne et.al. eds. 1997. Leucocyte Typing VI: White Cell Differentiation Antigens. P: 210 Garland Publishing, Inc. New York.

**Background:** **HLA-DR**, a member of MHC class II glycoproteins, that bind intracellularly processed peptides and present them to the Th cells, is composed of 36 kDa alpha chain and 27 kDa beta chain, both anchored in the plasma membrane. Together with other MHC II molecules HLA-DR plays a central role in the immune system.

**Warning:** Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

This material is offered for research only. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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