

# anti-human HLA-Class I

## Monoclonal Antibody HI21 to HLA-Class I (Human)

Cat-No: **21819221**

100 µg in 100 µl

### Clone: HI21

**Specificity:** Anti-HLA class I McAb recognizes class I major histocompatibility complex (or human leucocyte antigen) monomorphic antigen which expresses widely on human nucleated cells such as lymphocytes, monocytes/macrophages, dendritic cells and other hematopoietic and non-hematopoietic nucleated cells, and platelets. The expression of HLA-I antigen varies with cell types and decreases with cell maturation, such as less expression on mature granulocytes and almost loss on mature erythrocytes. HLA-I antigen is also expressed on most cells of human leukemic cell lines, but not or little on cells of Daudi and K562 cell lines and is absent from nerve cells. In addition to membrane HLA-I antigen, soluble form of HLA-I can be detected in serum or plasma.

**Isotype subclass:** mouse IgG1

**Form:** Protein G affinity chromatography

**Physical state:** Liquid

**Buffer/Additives/Preservative:** PBS with 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 (paraffin and frozen sections)

### References:

Chen Z., Bao ZX., Yu AX., et al., 1987. A group monoclonal antibodies against human platelets with different functions. Chinese Science Bulletin.24:190n

**Background:** HLA-class I major histocompatibility (MHC) antigens are intrinsic membrane glycoproteins expressed on nucleated cells and noncovalently associated with an invariant beta2 microglobulin. They carry foreign determinants important for immune recognition by cytotoxic T cells, thus important for anti-viral and anti-tumour defence. Human HLA-class I antigens are represented by HLA-A, HLA-B and HLA-C molecules.

**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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Gladiolenweg 2; 26169 Friesoythe; Germany  
phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, [info@immunotools.com](mailto:info@immunotools.com)  
[www.immunotools.com](http://www.immunotools.com)