

# anti-human HLA-Class I

## Monoclonal Antibody MEM-147 to HLA-Class I(Human)

**Cat-No:** 21279221

100 µg in 100 µl

**Clone:** MEM-147

**Specificity:** The antibody MEM-147 reacts with all human classical MHC Class I molecules in native cell-surface forms (e.g. it recognizes native HLA-A2 in cytofluorometry and immunoprecipitation but not in Western blotting). MHC Class I molecules (MHC Class Ia) are expressed on the surface of all human nucleated cell types. The antibody MEM-147 is positive in Western blotting (non-reducing conditions) only with most HLA-B and HLA-C molecules, but not HLA-A. Reactivity is very similar to the classical antibody W6/32.

**Isotype subclass:** Mouse IgG1

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

**Physical state:** Liquid

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

**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**

Immunoprecipitation

Western Blotting

*Application note:* Non-reducing conditions.

**References:** \*Tran TM and others: Immunogenetics. 2001 Aug;53(6):440-6

**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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