

Datasheet for ABIN94329

**anti-MICA antibody**

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## Overview

Quantity:	0.1 mg
Target:	MICA
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MICA antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunoprecipitation (IP)

## Product Details

Immunogen:	PHA-activated peripheral blood lymphocytes
Clone:	MEM-147
Isotype:	IgG1
Specificity:	The antibody MEM-147 reacts with an extracellular epitope of 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.
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

## Target Details

Target:	MICA
Alternative Name:	HLA-Class I ( <a href="#">MICA Products</a> )
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.
Pathways:	<a href="#">Activation of Innate immune Response</a> , <a href="#">Transition Metal Ion Homeostasis</a>

## Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-5 µg/mL. Western blotting: Non-reducing conditions.
Restrictions:	For Research Use only

## Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	<b>Do not freeze.</b>
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

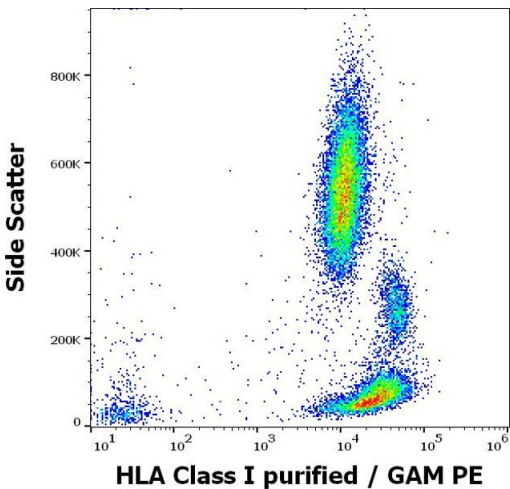
## Publications

Product cited in:	Drbal, Moertelmaier, Holzhauser, Muhammad, Fuertbauer, Howorka, Hinterberger, Stockinger, Schütz: "Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement." in: <b>International immunology</b> , Vol. 19, Issue 5, pp. 675-84, (2007) ( <a href="#">PubMed</a> ).
	Tran, Ivanyi, Hilgert, Brdicka, Pla, Breur, Flieger, Ivasková, Horejsí: "The epitope recognized by

pan-HLA class I-reactive monoclonal antibody W6/32 and its relationship to unusual stability of the HLA-B27/beta2-microglobulin complex." in: **Immunogenetics**, Vol. 53, Issue 6, pp. 440-6, (2001) ([PubMed](#)).

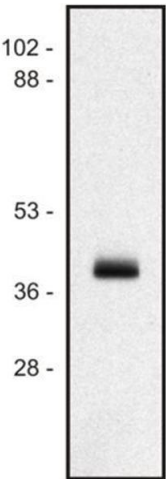
Ilangumaran, Briol, Hoessli: "CD44 selectively associates with active Src family protein tyrosine kinases Lck and Fyn in glycosphingolipid-rich plasma membrane domains of human peripheral blood lymphocytes." in: **Blood**, Vol. 91, Issue 10, pp. 3901-8, (1998) ([PubMed](#)).

Images



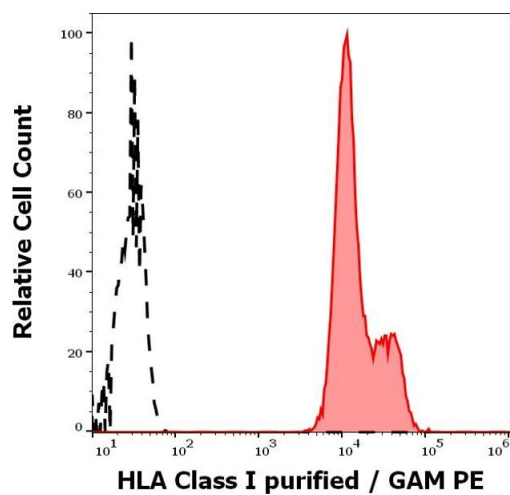
Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-HLA Class I (MEM-147) purified antibody (concentration in sample 1.67 µg/mL) GAM PE.



Western Blotting

**Image 2.** Western blot of human Ramos B cell line



### Flow Cytometry

**Image 3.** Separation of human leukocytes stained using anti-HLA Class I (MEM-147) purified antibody (concentration in sample 1.67  $\mu\text{g/mL}$ , GAM PE, red-filled) from human leukocytes unstained by primary antibody (GAM PE, black-dashed) in flow cytometry analysis (surface staining).