

Datasheet for ABIN192165
anti-MICA antibody (PE)[Go to Product page](#)

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Overview

Quantity:	0.1 mg
Target:	MICA
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MICA antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

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 antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	MICA
Alternative Name:	HLA-Class I (MICA Products)
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:	Activation of Innate immune Response , Transition Metal Ion Homeostasis

Application Details

Application Notes:	Flow cytometry: Recommended dilution: 1-2 µg/mL.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
Restrictions:	For Research Use only

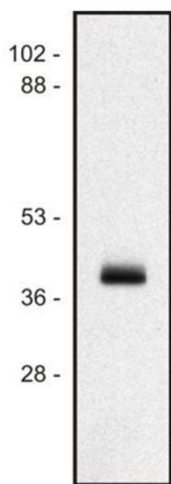
Handling

Concentration:	0.1 mg/mL
Buffer:	Stabilizing 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:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

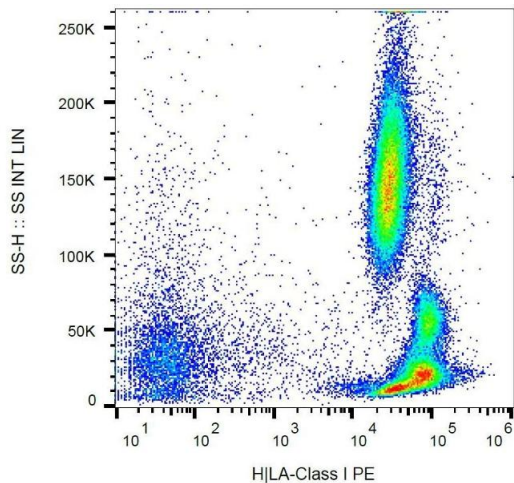
Product cited in:	Drbal, Moertelmaier, Holzhauser, Muhammad, Fuertbauer, Howorka, Hinterberger, Stockinger, Schütz: "Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement." in: International immunology , Vol. 19, Issue 5, pp. 675-84, (2007) (PubMed).
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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](#)).



Western Blotting

Image 1. Western blot of human Ramos B cell line



Flow Cytometry

Image 2. Surface staining of human peripheral blood with anti-HLA-class I (MEM-147) PE.