

Datasheet for ABIN125724  
**anti-MICA antibody (PE)**

2 Images

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## Overview

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

## Product Details

Immunogen:	Membrane of human tonsil cells
Clone:	W6-32
Isotype:	IgG2a
Specificity:	The antibody W6/32 recognises an extracellular epitope of MHC Class I molecules (MHC Class Ia) that are expressed on the surface of all human nucleated cell types. The antibody W6/32 is a valuable reagent for analysing variations in HLA class I expression in different disease states e.g. liver disease, muscular dystrophy, inflammatory myopathy and other neuromuscular disorders. This antibody W6/32 is also suitable as a positive control for HLA tissue typing and crossmatching.
No Cross-Reactivity:	Rabbit
Cross-Reactivity (Details):	Human, Non-Human Primates, Bovine, Feline (Cat)
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions.

## Product Details

Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## 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.
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

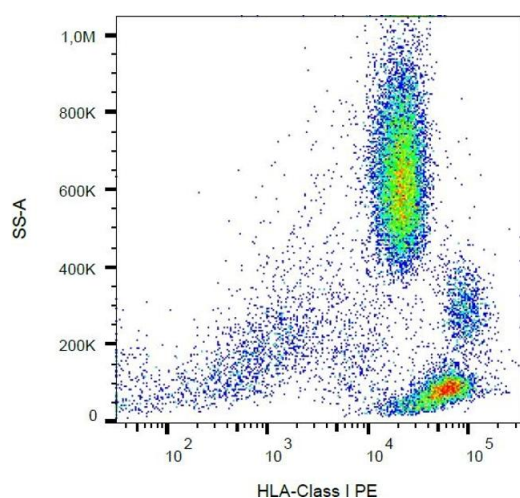
## Handling

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:	<b>Do not freeze.</b> 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

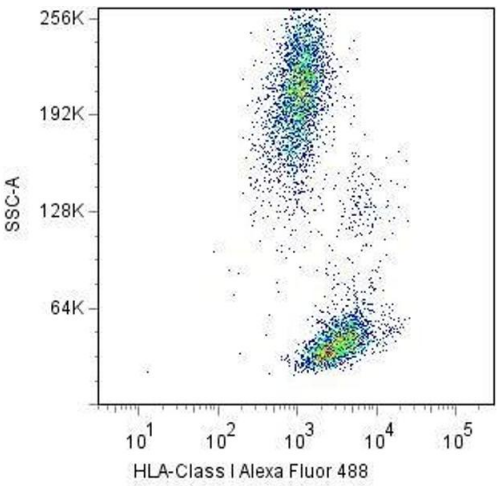
- Product cited in:
- Tyciakova, Matuskova, Bohovic, Polakova, Toro, Skolekova, Kucerova: "Genetically engineered mesenchymal stromal cells producing TNF $\alpha$  have tumour suppressing effect on human melanoma xenograft." in: **The journal of gene medicine**, (2015) ([PubMed](#)).
- Le Discorde, Moreau, Sabatier, Legeais, Carosella: "Expression of HLA-G in human cornea, an immune-privileged tissue." in: **Human immunology**, Vol. 64, Issue 11, pp. 1039-44, (2003) ([PubMed](#)).
- 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](#)).
- Ladasky, Shum, Canavez, Seuánez, Parham: "Residue 3 of beta2-microglobulin affects binding of class I MHC molecules by the W6/32 antibody." in: **Immunogenetics**, Vol. 49, Issue 4, pp. 312-20, (1999) ([PubMed](#)).
- Shields, Ribaud: "Mapping of the monoclonal antibody W6/32: sensitivity to the amino terminus of beta2-microglobulin." in: **Tissue antigens**, Vol. 51, Issue 5, pp. 567-70, (1998) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)

## Images



### Flow Cytometry

**Image 1.** Flow cytometry analysis (surface staining) of human peripheral blood cells with anti-HLA-class I (W6/32) PE.



Flow Cytometry

**Image 2.** Surface staining of human peripheral blood cells with anti-HLA-class I(W6/32) Alexa Fluor® 488.