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Datasheet for ABIN7013904

anti-MICA/B antibody

2 Images

Overview

Quantity:	0.1 mg
Target:	MICA/B (MICA/MICB)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MICA/B antibody is un-conjugated
Application:	Flow Cytometry (FACS), Immunohistochemistry (IHC), Immunoprecipitation (IP)

Product Details

Immunogen:	Transfected C1R cells expressing MICA
Clone:	6D4
Isotype:	IgG2a
Specificity:	The mouse monoclonal antibody 6D4 recognizes a common extracellular epitope on MICA and MICB glycoproteins, transmembrane ligands of CD314 (NKG2D), and is able to block CD314-mediated activation of NK cells and cytotoxic T cells.
Purification:	Purified by protein-A affinity chromatography.

Target Details

Target:	MICA/B (MICA/MICB)
Alternative Name:	MICA/MICB (MICA/MICB Products)

Target Details

Background: MICA and MICB glycoproteins are members of MHC class I family, closely linked to HLA-B. However, unlike HLA molecules, MICA and MICB are not associated with beta2 microglobulin and are conformationally stable in the absence of conventional MHC class I peptide ligands. Both proteins are stress-induced antigens expressed mainly in gastrointestinal epithelium, where they are recognized by V-delta1 subset of gamma/delta T cells, and also on diverse epithelial tumor cells. Binding of MICA/MICB receptor, the NKG2D, leads to cytolytic response of NK cells, Tc cells, and gamma/delta T cells. Alternative splicing results in multiple isoforms, and some of them have been associated with susceptibility to psoriasis and psoriatic arthritis. Shedding of MICA-related antibodies and ligands is involved in the progression from monoclonal gammopathy of undetermined significance to multiple myeloma.

Application Details

Application Notes: Flow cytometry: Recommended dilution: 1-4 µg/mL.

Restrictions: For Research Use only

Handling

Concentration: 1 mg/mL

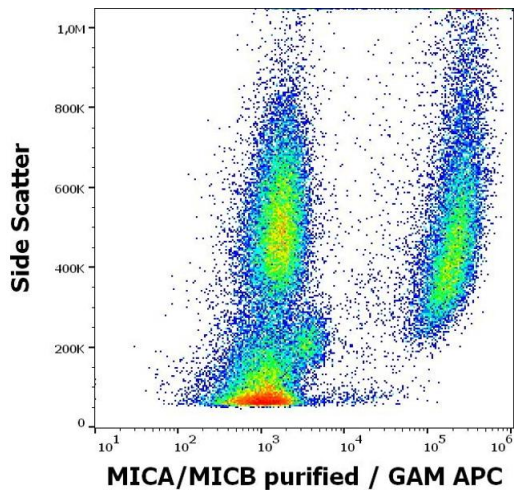
Buffer: Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

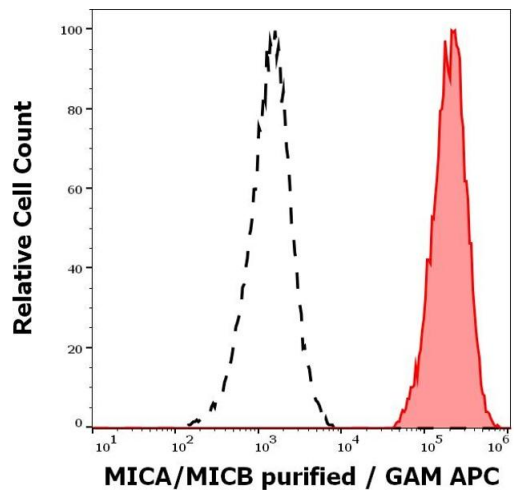
Storage: 4 °C

Storage Comment: Store at 2-8°C. Do not freeze.



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood spiked with HeLa cells stained using anti-human MICA/MICB (6D4) purified antibody (concentration in sample 0.3 µg/mL, GAM APC).



Flow Cytometry

Image 2. Separation of human HeLa cells (red-filled) from leukocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood spiked with HeLa cells stained using anti-human MICA/MICB (6D4) purified antibody (concentration in sample 0.3 µg/mL, GAM APC).