Datasheet for ABIN7013907

anti-MICA/B antibody (FITC)

1 Image

Go to Product page

Overview

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

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 antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	MICA/B (MICA/MICB)

Target Details

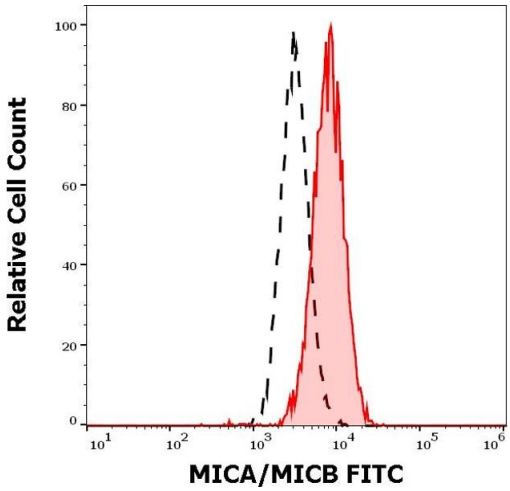
Alternative Name:	MICA/MICB (MICA/MICB Products)
Background:	MICA and MICB glycoproteins are members of MHC class I family, closely linked to HLA-B. However, unlike HLA molecules, MICA and MICB are not associated with beta2 microglobulin and are conformationally stable in the absence of conventional 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: 2 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. Protect from prolonged exposure to light. Do not freeze.



Flow Cytometry

Image 1. Separation of Jurkat cells stained using anti-human MICA/MICB (6D4) FITC antibody (concentration in sample 5 µg/mL, red-filled) from unstained Jurkat cells (black-dashed) in flow cytometry analysis (surface staining).