full spectrum cell analysis®
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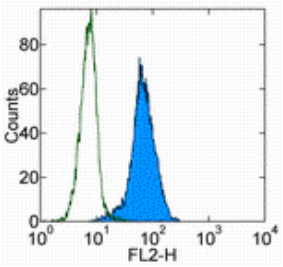
Anti-Human MICA/B PE

Catalog Number: 12-5788
Also Known As:MICA/MICB, MICA, MICB
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of HeLa cells with Mouse IgG2a kappa Isotype Control PE (cat. 12-4724) (open histogram) or Anti-Human MICA/B PE (filled histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Human MICA/B PE
REF **Catalog Number:** 12-5788
Clone: 6D4
Concentration: 5 uL (0.125 ug)/test
Host/Isotype: Mouse IgG2a, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

Description

The 6D4 monoclonal antibody reacts with the human major histocompatibility complex (MHC) class I chain-related (MIC), MICA and MICB proteins. MICA and MICB are related proteins of 83% amino acid similarity, and show homology with classical human leukocyte antigen (HLA) molecules. The structure of MICA and MICB are similar to classical HLA class I chains, however they do not bind β2 microglobulin or bind peptide typical of HLA class I. MICA and MICB are expressed on the cell surface of endothelial cells, fibroblasts, gastric epithelium and PHA-stimulated T cells, and act as a ligand for NKGD2 expressed on the surface of NK cells, γδ T cells and αβ CD8+ T cells. There is evidence to suggest that human cytomegalovirus (HCMV) subverts NK cell detection by inhibiting the function of MICB. Furthermore, MICA and MICB expression has been detected in several epithelial tumours isolated from breast, lung, ovary, prostate, colon and kidney.

Applications Reported

This 6D4 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This 6D4 antibody has been pre-titrated and tested by flow cytometric analysis of HeLa cells. This can be used at 5 µL (0.125 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test.

References

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Hankey KG, Drachenberg CB, et al. 2002. MIC expression in renal and pancreatic allografts. Transplantation. 73(2):304-6. (IHC paraffin, PubMed)

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Related Products
12-4724 Mouse IgG2a K Isotype Control PE
13-5878 Anti-Human CD314 (NKG2D) Biotin (1D11)

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