

### 30-2503: Anti-MICA/MICB APC (Clone : 6D4)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	6D4
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	APC
<b>Isotype :</b>	Mouse IgG2a
<b>Immunogen Information :</b>	Transfected C1R cells expressing MICA

#### Description

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.

**Specificity :** The mouse monoclonal antibody 6D4 recognizes a common extracellular epitope on MICA and MICB glycoproteins, transmembrane ligands of NKG2D, and is able to block NKG2D-mediated activation of NK cells and cytotoxic T cells.

#### Product Info

<b>Amount :</b>	0.1 mg
<b>Purification :</b>	The purified antibody is conjugated with allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography.
<b>Content :</b>	0.1 mg/ml Formulation : Stabilizing phosphate buffered saline (PBS) solution containing 15 mM sodium azide
<b>Storage condition :</b>	Store in the dark at 2-8°C. Do not freeze. Avoid prolonged exposure to light.

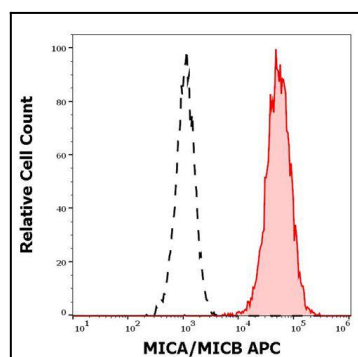


Figure 1 : Separation of Jurkat cells stained using anti-human MICA/MICB (6D4) APC antibody (concentration in sample 5 µg/ml, red-filled) from unstained Jurkat cells (black-dashed) in flow cytometry analysis (surface staining).