

## 12-9617: Anti-MICA antibody(7F12), IgG1 Chimeric mAb

|                           |                               |
|---------------------------|-------------------------------|
| <b>Clonality :</b>        | Monoclonal                    |
| <b>Clone Name :</b>       | 7F12                          |
| <b>Reactivity :</b>       | Human                         |
| <b>Gene :</b>             | MICA                          |
| <b>Uniprot ID :</b>       | Q29983                        |
| <b>Alternative Name :</b> | MIC-A; PERB11.1               |
| <b>Isotype :</b>          | Rabbit/Human Fc chimeric IgG1 |

### Description

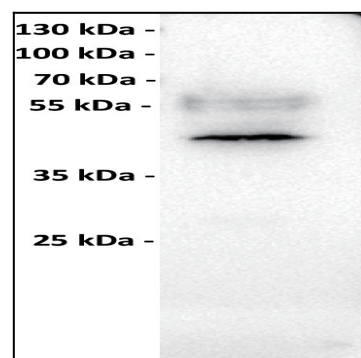
This gene encodes the highly polymorphic major histocompatibility complex class I chain-related protein A. The protein product is expressed on the cell surface, although unlike canonical class I molecules it does not seem to associate with beta-2-microglobulin. It is a ligand for the NKG2-D type II integral membrane protein receptor. The protein functions as a stress-induced antigen that is broadly recognized by intestinal epithelial gamma delta T cells. Variations in this gene have been associated with susceptibility to psoriasis 1 and psoriatic arthritis, and the shedding of MICA-related antibodies and ligands is involved in the progression from monoclonal gammopathy of undetermined significance to multiple myeloma. Alternative splicing of this gene results in multiple transcript variants. [provided by RefSeq, Jan 2014]

### Product Info

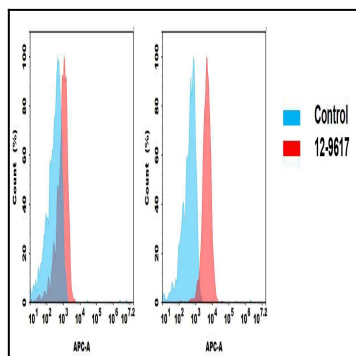
|                            |                                                                                                                                                                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Amount :</b>            | 10µg / 100 µg                                                                                                                                                                                                                                       |
| <b>Purification :</b>      | Purified from cell culture supernatant by affinity chromatography                                                                                                                                                                                   |
| <b>Content :</b>           | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.                                                    |
| <b>Storage condition :</b> | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |

### Application Note

WB 1:1000; Flow Cyt 1:100



"Figure 1. Anti-MICA antibody (Cat# 12-9617) at 1/1000 dilution Lane : HeLa (human cervical adenocarcinoma epithelial cell), whole cell lysate Secondary : Goat Anti-Rabbit IgG H&L (HRP) at 1/5000 dilution band size: 43 kDa"



"Figure 2. Flow cytometry analysis of antigen binding of anti-human MICA mAb(12-9617). (A) 12-9617 does bind to PC3 cells that weakly express MICA (B) A clear peak shift of 12-9617 was seen compared to the control when incubated with MICA-expressing Hela cells, indicating strong binding of 12-9617 to MICA. Antibodies were incubated at 10 µg/mL. "