9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

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

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

## Description

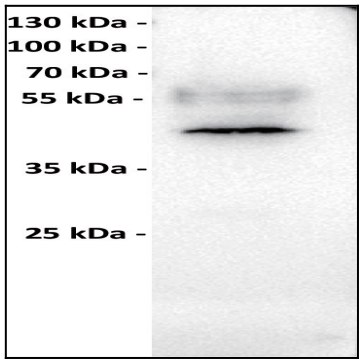
This gene encodes the highly polymorphic major histocompatability complex class I chain-related protein A. The protein product is expressed on the cell surface, although unlike canonical class I molecules it does not seem to associate with beta-2-microglobulin. It is a ligand for the NKG2-D type II integral 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

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|---|---|
| **Amount :** | 10µg / 100 µg |
| **Purification :** | Purified from cell culture supernatant by affinity chromatography |
| **Content :** | 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. |
| **Storage condition :** | 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

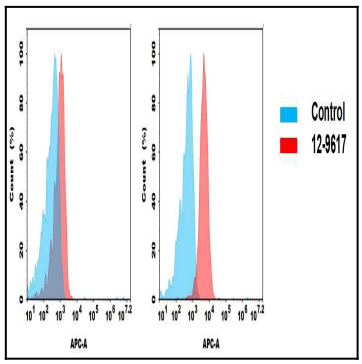
WB 1:1000; Flow Cyt 1:100




"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"

***For Research Use Only. Not for use in diagnostic/therapeutics procedures.***

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"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. "

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