

PRODUCT INFORMATION

Clone ID	7F12
Target	MICA
Synonyms	MIC-A; PERB11.1
Host Species	Rabbit
Description	Anti-MICA antibody(7F12), IgG1 Chimeric mAb
Delivery	In Stock
Uniprot ID	Q29983
IgG type	Rabbit/Human Fc chimeric IgG1
Clonality	Monoclonal
Reactivity	Human
Applications	WB; Flow Cyt
Recommended Dilutions	WB 1:1000; Flow Cyt 1:100
Purification	Purified from cell culture supernatant by affinity chromatography
Formulation & Reconstitution	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 & Shipping	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.
Background	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]
Usage	Research use only



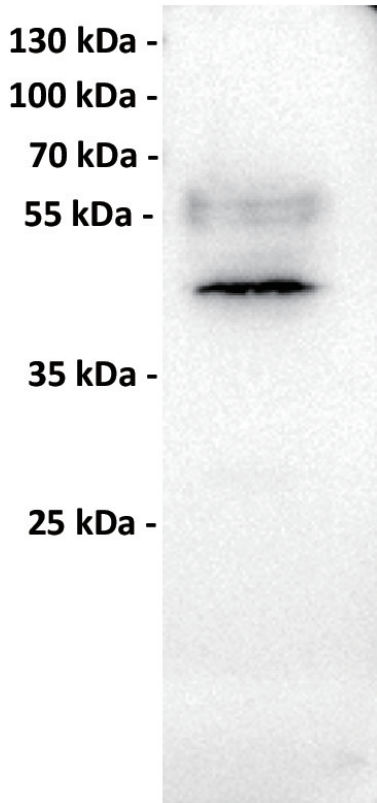


Figure 1. Anti-MICA antibody (SKU# DMC100608) at 1/1000 dilution

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

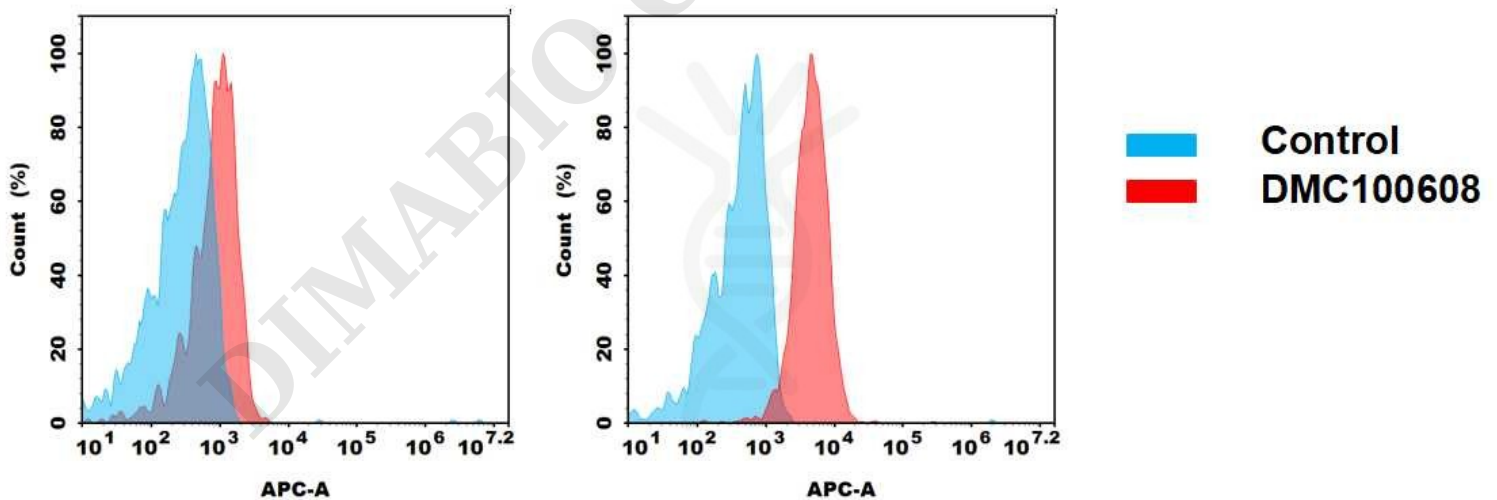


Figure 2. Flow cytometry analysis of antigen binding of anti-human MICA mAb(DMC100608).

(A) DMC100608 does not bind to PC3 cells that weakly express MICA

(B) A clear peak shift of DMC100608 was seen compared to the control when incubated with MICA-expressing HeLa cells, indicating strong binding of DMC100608 to MICA.

Antibodies were incubated at 10 ug/mL.

