**BACKGROUND**

MICA and MICB are stress-induced antigens that are related to major histocompatibility complex (MHC) class I molecules. MICA and MICB are frequently expressed in epithelial tumors. These highly glycosylated cell surface proteins are stably expressed without conventional class I peptide ligands or association with β-2-microglobulin. The expression is induced on proliferating or heat shock-stressed epithelial cells. MICA and MICB are broadly recognized by intestinal epithelial Vα1 Vγ T cells expressing variable TCRs, suggesting that these antigens may play a central role in the signaling of cellular distress to evoke immune responses in the intestinal epithelium.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: MICA (human) mapping to 6p21.33.

**SOURCE**

MICA (2C10) is a mouse monoclonal antibody raised against C1R cells expressing MICA mRNA after stable transfection with MICA cDNA in RSV5neo.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

MICA (2C10) is available conjugated to agarose (sc-23870 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-23870 HRP), 200 µg/ml, for WB, IHC(P), IHC(C), and ELISA; to either phycoerythrin (sc-23870 PE), fluorescein (sc-23870 FITC), Alexa Fluor® 488 (sc-23870 AF488), Alexa Fluor® 546 (sc-23870 AF546), Alexa Fluor® 594 (sc-23870 AF594) or Alexa Fluor® 647 (sc-23870 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-23870 AF680) or Alexa Fluor® 790 (sc-23870 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

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**APPLICATIONS**

MICA (2C10) is recommended for detection of MICA human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)] and flow cytometry (1 µg per 1 x 10⁸ cells).

Suitable for use as control antibody for MICA siRNA (h): sc-42924, MICA shRNA Plasmid (h): sc-42924-SH and MICA shRNA (h) Lentiviral Particles: sc-42924-V.

Molecular Weight of MICA: 62 kDa.

Positive Controls: MICA (h2): 293T Lysate: sc-113460, HeLa whole cell lysate: sc-2200 and MCF7 whole cell lysate: sc-2206.

**STORAGE**

Store at 4°C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**DATA**

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.