



Recombinant Protein Technical Manual

Recombinant Human MICA Protein (Fc Tag)(Active)

RPES4614

Product Data:

Product SKU: RPES4614

Size: 10µg

Species: Human

Expression host: Human Cells

Uniprot: Q29983

Protein Information:

Molecular Mass: 59.9 kDa

AP Molecular Mass: 88 kDa

Tag: C-Fc

Bio-activity: Immobilized Human MICA-Fc at 2µg/ml(100 µl/well) can bind Human NKG2DL2-His(Cat: PKSH032816). The ED50 of Human MICA-Fc is 2.29 ug/ml .

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: MHC Class I Polypeptide-Related Sequence A; MIC-A; MICA; PERB11.1

Immunogen Information:

Sequence: Ala23-Glu308

Background:

MHC class I polypeptide-related sequence A, also known as MIC-A, PERB11.1 and MICA, is a single-pass type I membrane protein which belongs to the MHC class I family of MIC subfamily. MICA contains one Ig-like C1-type domain and is expressed on the cell surface, although unlike canonical class I molecules does not seem to associate with beta-2-microglobulin. It is thought that MICA functions as a stress-induced antigen that is broadly recognized by NK cells, NKT cells, and most of the subtypes of T cells. MICA is the ligand for NK cell activating receptor KLRK1/NKG2D. MICA seems to have no role in antigen presentation. MICA leads to cell lysis by binding to KLRK1.