HUMAN MICAA3 PROTEIN

Cat.#: 12282

Product Name: Human MICAa3 Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: MICA;MIC-A;PERB11.1

Target: MICAa3

UNIPROT ID: Q29983

Description: Recombinant human MICAa3 Protein with C-terminal mouse Fc tag

Background: 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]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 37.9 kDa after removal of the signal peptide. The apparent molecular mass of MICAa3(203-306)-mFc is approximately 35-70 kDa due to glycosylation.

Molecular Characterization: MICAa3(Arg203-His306) mFc(Pro99-Lys330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

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.

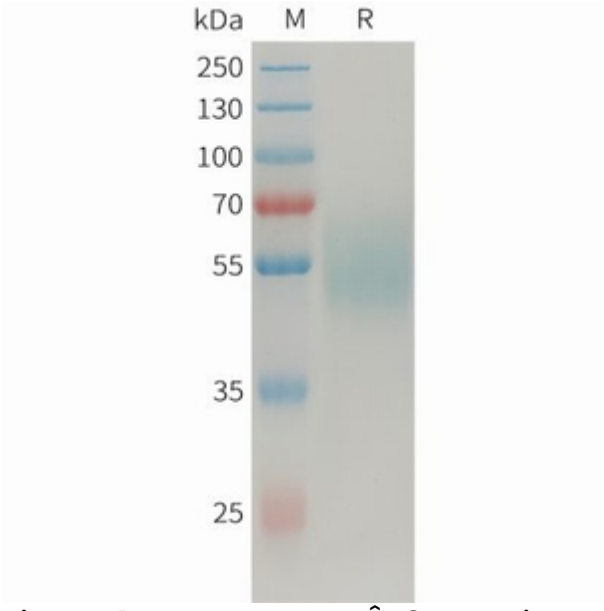

Figure 1. Human MICAÎ±3 Protein, mFc Tag on SDS-PAGE under reducing condition.