

HUMAN MICB PROTEIN, HIS TAG

Cat.#: 11318

Product Name: Human MICB Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: MIC-B;PERB11.2

Target: MICB

UNIPROT ID: Q29980

Description: Recombinant Human MICB Protein with C-terminal 6xHis tag

Background: This gene encodes a heavily glycosylated protein which is a ligand for the NKG2D type II receptor. Binding of the ligand activates the cytolytic response of natural killer (NK) cells, CD8 alphabeta T cells, and gammadelta T cells which express the receptor. This protein is stress-induced and is similar to MHC class I molecules, however, it does not associate with beta-2-microglobulin or bind peptides. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 33.5 kDa after removal of the signal peptide. The apparent molecular mass of MICB-His is approximately 35-55 kDa due to glycosylation.

Molecular Characterization: MICB(Ala23-Asp309) 6xHis tag

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.

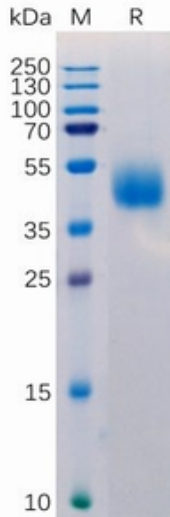


Figure 1. Human MICB Protein, His Tag on SDS-PAGE under reducing condition.

Human MICB, His tagged protein ELISA

0.1 μ g of Human MICB, His tagged protein per well

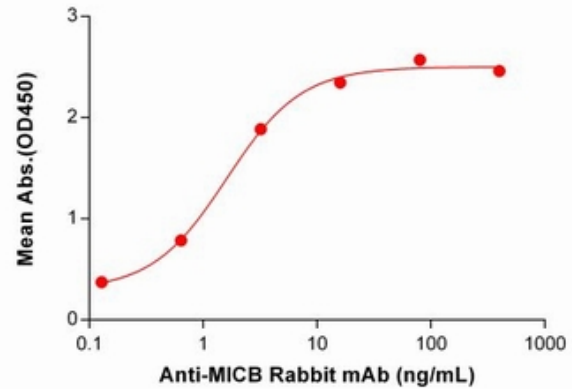


Figure 2. ELISA plate pre-coated by 1 μ g/ml (100 μ l/well) Human MICB protein, His Tag (11318) can bind Anti-MICB Rabbit mAb in a linear range of 0.128-16 ng/mL.

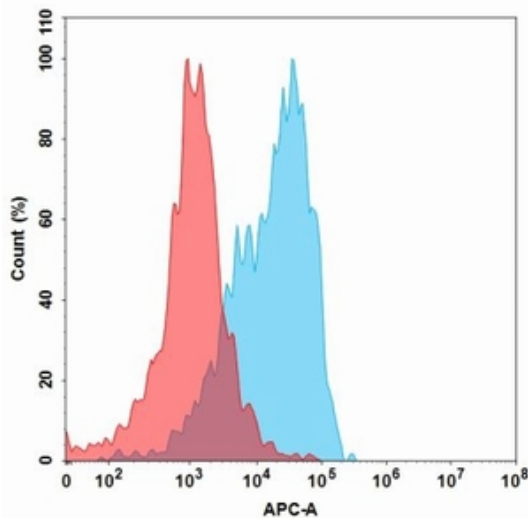


Figure 3. Flow cytometry analysis with 15 μ g/ml Human MICB Protein, His Tag (11318) on Expi293 cells transfected with Human NKG2D protein and Human DAPI10 protein (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).