

For Research Use Only

Recombinant Human MICB protein (rFc Tag)



Catalog Number: Eg6138

Basic Information

Species:
Human

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Human MICB protein Ala23-Asp309 (Accession# Q29980) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

4277

Accession:

Q29980

Predicted Molecular Mass:

58.3 kDa

SDS-PAGE:

60-85 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

The MHC class I chain-related B molecule, also commonly known as MICB, is one of the ligands of NKG2D receptor. NKG2D receptors exist in NK cells and CD8+ T cells, which mediate antitumor response and immune surveillance. MICB is expressed by the intestinal epithelium and epithelial tumors as well. MICA and MICB are closely related and functionally indistinguishable. Both are recognized by cytotoxic γ δ T cells expressing the TCR variable region V δ 1. In cancer patients, elevated MICB levels correlated significantly with cancer stage and metastasis.

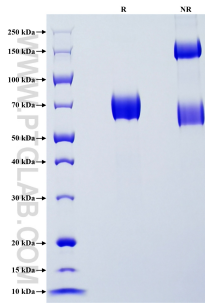
References

1. Schrambach, Stéphanie et al. PLoS One. 2007;2(6):e518.
2. Groh, V et al. Proc Natl Acad Sci U S A. vol. 96,12 (1999): 6879-84.
3. Feng Q, et al. J Cancer Res Clin Oncol. 2020;146(6):1405-1413.

Synonyms

MHC class I polypeptide-related sequence B, MIC B, MIC-B, PERB11.2

Selected Validation Data



Purity of Recombinant Human MICB was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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