

MICB active protein

MICB Protein, Human, Recombinant (His & hFc Tag)

CATALOG #
AAA257924

HOST
HEK293 Cells

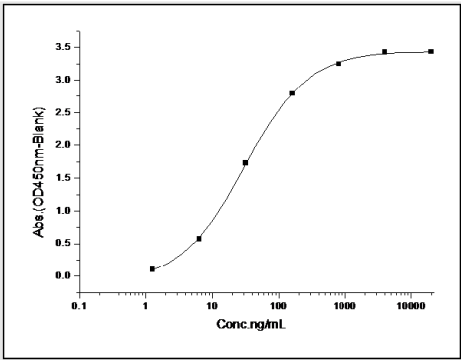
PRODUCT SYNONYMS

MICB; MICB Protein; Human; Recombinant (His & hFc Tag); Human MICB Protein (His & Fc Tag); PERB11.2 Protein; MHC class I polypeptide-related sequence B; MICB active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>98% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Gly29 8
Species	Human
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ala 23
Tag	C-human IgG1-Fc & His
Protein Construction	A DNA sequence encoding the extracellular domain of human MICB (NP_005922.2)(Met 1-Gly 298) was fused with the C-terminal polyhistidine-tagged Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	Immobilized human His-NKG2D (78-216) at 10ug/ml (100uL/well) can bind human MICB-Fch. The EC50 of human MICB-Fch is 15.9-37.1ng/mL.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE

Application Data
Immobilized human His-NKG2D (78-216) at 10 ug/ml (100 ul/well) can bind human MICB-Fch, The EC50 of human MICB-Fch is 15.9-37.1 ng/ml.

ADDITIONAL INFORMATION

Related Product Information for MICB active protein	Background: MHC class I polypeptide-related sequence B, also known as MICB, is a heavily glycosylated protein serving as a ligand for the type II receptor NKG2D. MICB shares 85% amino acid identity with MICA, a closely related protein, both of which contain three extracellular immunoglobulin-like domains, but without the capacity to bind peptide or interact with beta-2-microglobulin. acting as a stress-induced self-antigen, binding of MICB to the NKG2D receptor activates the cytolytic response of natural killer (NK) cells, CD8+alphabeta T cells, and gammadelta T cells on which the receptor is expressed. MICA/B is minimally expressed on normal cells, but are frequently expressed on epithelial tumors and can be induced by bacterial and viral infections. MICA/B recognition thus is involved in tumor surveillance, viral infections, and autoimmune diseases.
References	Bauer, S. et al., 1999, Science. 285:727-729. Braud, V.M. et al., 1999, Curr. Opin. Immunol. 11: 100-108. Groh, V. et al., 2001, Nature Immunol. 2: 255-260. Stephens, H., 2001, Trends Immunol. 22: 378-385. Borrego, F. et al., 2002, Mol. Immunol. 38: 637-660. Groh, V. et al., 2002, Nature. 419:734-738.

NCBI AND UNIPROT INFORMATION

NCBI GI #	167857788
NCBI GeneID	4277
NCBI Accession #	NP_005922.2
NCBI GenBank Nucleotide #	NM_005931.4
UniProt Accession #	Q29980; O14499; O14500; O19798; O19799; O19800; O19801; O19802; O19803; O78099; A6NP85; B0UZ10
Molecular Weight	42,646 Da
NCBI Official Full Name	MHC class I polypeptide-related sequence B isoform 1
NCBI Official Synonym Full Names	MHC class I polypeptide-related sequence B
NCBI Official Symbol	MICB
NCBI Official Synonym Symbols	PERB11.2
NCBI Protein Information	MHC class I polypeptide-related sequence B; MHC class I mic-B antigen; stress inducible class I homolog; MHC class I chain-related protein B; MHC class I-like molecule PERB11.2-IMX
UniProt Protein Name	MHC class I polypeptide-related sequence B
UniProt Gene Name	MICB
UniProt Synonym Gene Names	MIC-B
UniProt Entry Name	MICB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-cells-active-protein/micb/257924>