

Datasheet for KOA0593**Human MICB ELISA Kit****Overview**

Description:	Human MICB AccuSignal ELISA Kit - KOA0593
Item No.:	KOA0593
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	62.5 pg/ml - 4000 pg/ml

Product Details

Background:	MHC class I polypeptide-related sequence B, also called MICB is a protein that in humans is encoded by the MICB gene. The MICB gene is mapped to 6p21.33. 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. It seems to have no role in antigen presentation. This gene acts as a stress-induced self-antigen that is recognized by gamma delta T cells. It is the ligand for the KLRK1/NKG2D receptor and binds to KLRK1 leads to cell lysis.
Synonyms:	MHC class I chain related protein B, MHC class I like molecule PERB11.2 IMX, MHC class I mic B antigen, MHC class I polypeptide related sequence B, MHC class I polypeptide-related sequence B, MIC B, MIC-B, MICB, MICB_HUMAN, PERB11.2, Stress inducible class I homolog
Detection Kit Type:	ELISA Kit
Detection Range:	62.5 pg/ml - 4000 pg/ml
Sensitivity:	<10 pg/ml

Target Details

Gene Name:	MICB
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: A23-G298

Purity/Specificity: Natural and recombinant human MICB. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - Q29980](#)
- [NCBI - NP_001276089.1](#)
- [GeneID - 4277](#)
- [KOA0593 Protocol](#)

Application Details

Tested Applications: ELISA

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 4000pg/ml, 2000pg/ml, 1000pg/ml, 500pg/ml, 250pg/ml, 125pg/ml, 62.5pg/ml human MICB standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma (heparin, EDTA) to each empty well. It is recommended that each human MICB standard solution and each sample be measured in duplicate.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Formulation

Anticoagulant: Heparin Sodium

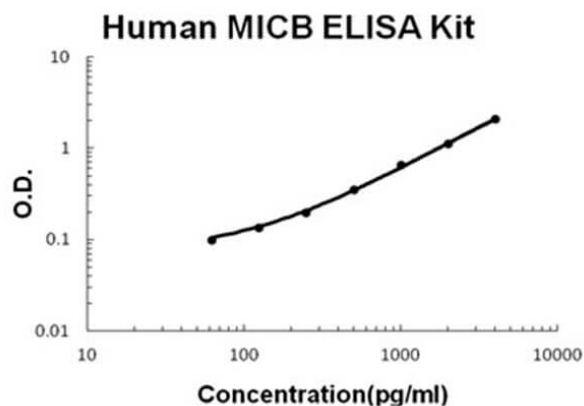
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images



ELISA

Human MICB AccuSignal ELISA Kit standard curve. Assay Range: 62.5pg/ml-4000pg/ml. Sensitivity: <10pg/ml.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.