

Datasheet for KOA0483**Human MICA ELISA Kit****Overview**

Description:	Human MICA AccuSignal ELISA Kit - KOA0483
Item No.:	KOA0483
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	62.5 pg/ml - 4000 pg/ml

Product Details

Background:	MHC class I polypeptide-related sequence A is a protein that in humans is encoded by the MICA gene. ¹ The MICA gene encodes a 383-amino acid polypeptide with a predicted mass of 43 kD. The MICA and MICB genes occur in a 200-kb region spanning the TNFA and TNFB cluster at 6p21.3. ² MICA and the closely related MICB were recognized by intestinal epithelial T cells expressing diverse V-delta-1 gamma/delta TCRs. ³ The MICA protein product is expressed on the cell surface, although unlike canonical class I molecules does not seem to associate with beta-2-microglobulin. It is further distinguished by its unusual exon-intron organization and preferential expression in fibroblasts and epithelial cells. It is thought that MICA functions as a stress-induced antigen that is broadly recognized by NK cells, NKT cells, and most of the subtypes of T cells. MICA and other members of this family may have been selected for specialized functions that are either ancient or derived from those of typical MHC class I genes, in analogy to some of the nonclassic mouse H-2 genes.
Synonyms:	FLJ60820, HLA class I antigen, MGC111087, MHC class I chain related gene A protein, MHC class I chain related protein A, MHC class I polypeptide related sequence A, MHC class I related protein, MIC A, PERB11.1, 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:	MICA
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Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: E24-W307
Purity/Specificity:	Natural and recombinant human MICA. There is no detectable cross-reactivity with other relevant proteins.
Relevant Links:	• UniProtKB - Q29983 • NCBI - NP_000238.1 • GenelD - 100507436 • KOA0483 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 MICA 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, cell lysates, tissue lysates or serum to each empty well. It is recommended that each human MICA 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.

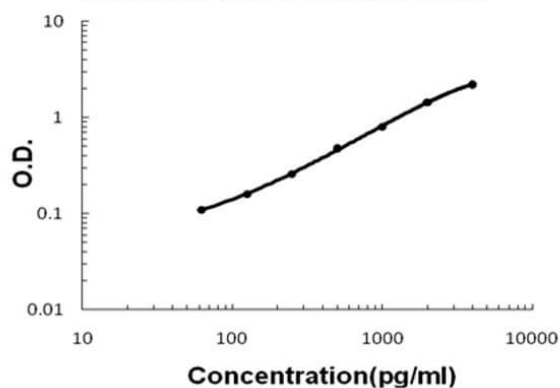
Formulation

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

Human MICA ELISA Kit



ELISA

Human MICA 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.