Datasheet for ABIN6719703

MICA ELISA Kit

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Overview

Quantity:	1 kit
Target:	MICA
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	62.5 pg/mL - 4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

Purpose:	Human MICA Sandwich ELISA Kit for Quantitative Detection
Brand:	AccuSignal™
Sample Type:	Cell Culture Lysate, Cell Culture Supernatant, Serum, Tissue Lysate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Production: Natural and recombinant human MICA. There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	< 10 pg/mL
Components:	• Antibody-coated 96-well plate • Target Protein Standard • Detection antibody

Product Details

- Detection reagent
- Diluent buffers
- Wash buffers
- Substrate Solution
- Stop solutions
- Adhesive covers

Target Details

Target:	MICA
Alternative Name:	MICA (MICA Products)
Background:	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 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.
Gene ID:	100507436
NCBI Accession:	NP_000238
UniProt:	Q29983
Pathways:	Activation of Innate immune Response, Transition Metal Ion Homeostasis, Human Leukocyte Antigen (HLA) in Adaptive Immune Response

Application Details

Application Notes:	Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the

Application Details

	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 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL 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.
Comment:	Standard: Expression system for standard: NSO, Immunogen sequence: E24-W307
Sample Volume:	100 µL
Plate:	Pre-coated
Restrictions:	For Research Use only

Handling

Storage:	4 °C,-20 °C
Storage Comment:	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.
Expiry Date:	12 months