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Datasheet for ABIN6719703 MICA ELISA Kit

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:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Lysate, Cell Culture Supernatant, Serum, Tissue Lysate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>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</p> <p>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</p>

Product Details

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 Name: MICA

Production: Natural and recombinant human MICA. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: E24-W307

Target Details

Target:	MICA
Alternative Name:	MICA (MICA Products)
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: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL 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 0.1 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.

ELISA Dilution: 62.5pg/mL-4000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

Application Details

Restrictions: For Research Use only

Handling

Storage: RT, 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.