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Datasheet for ABIN6720149 **S100A8 ELISA Kit**

Overview

Quantity:	1 kit
Target:	S100A8
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	31.2 pg/mL - 2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: 60B8AG, CAGA, Calgranulin-A, Calprotectin L1L subunit, CFAG, CGLA, CP-10, Cystic fibrosis antigen, L1Ag, Leukocyte L1 complex light chain, MA387, MIF, Migration inhibitory factor-related protein 8, MRP 8, MRP-8, MRP8, Myeloid-related protein 8, NIF, p8, Protein S100-A8, S100 calcium binding protein A8, S100 calcium-binding protein A8 (calgranulin A), S100 calcium-binding protein A8, S100A8, S10A8_HUMAN, Urinary stone protein band A</p> <p>Background: S100 calcium-binding protein A8 (S100A8), also known as calgranulin A, is a protein that in humans is encoded by the S100A8 gene. It is mapped to chromosome 1q21.3 based on an alignment of the S100A8 sequence with the genomic sequence. The proteins</p>

Product Details

S100A8 and S100A9 form a heterodimer called calprotectin which is a major calcium- and zinc-binding protein in the cytosol of neutrophils, monocytes, and keratinocytes. This gene is a member of the S100 family of proteins containing 2 EF-hand calcium-binding motifs. S100 proteins are localized in the cytoplasm and/or nucleus of a wide range of cells, and involved in the regulation of a number of cellular processes such as cell cycle progression and differentiation. And S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. This protein may function in the inhibition of casein kinase and as a cytokine. Altered expression of this protein is associated with the disease cystic fibrosis.

Gene Name: S100A8

Production: Natural and recombinant mouse S100A8. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: E.coli, Immunogen sequence: P2-E89

Target Details

Target:	S100A8
Alternative Name:	S100A8 (S100A8 Products)
Gene ID:	20201
NCBI Accession:	NP_038678
UniProt:	P27005
Pathways:	Transition Metal Ion Homeostasis , Positive Regulation of Endopeptidase Activity , S100 Proteins

Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL mouse S100A8 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse S100A8 standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 31.2 pg/mL-2000pg/mL

Other Performance Data: DOE: 2-8° C - 04/12/19 -20° C - 10/12/19

Sample Volume: 100 µL

Application Details

Plate: Pre-coated

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.