

Human S100A8 ELISA Kit | S100A8 elisa kit

Human S100A8 PicoKine ELISA Kit

CATALOG #
AAA46784

REACTIVITY
Human

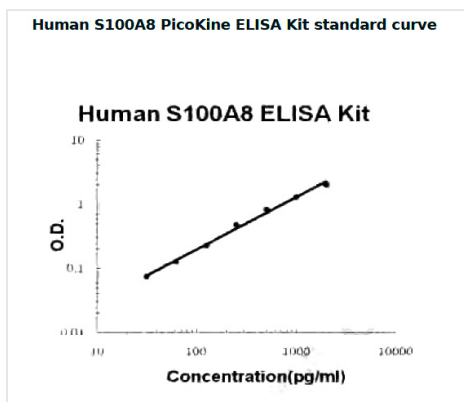
PRODUCT SYNONYMS

S100A8; Human S100A8 PicoKine ELISA Kit; CAGA; CFAG; MRP8; Caga; Mrp8; Calgranulin-A; Calprotectin L1L subunit; Cystic fibrosis antigen; Leukocyte L1 complex light chain; MRP 8; MRP-8; P05109; Protein S100A8; Protein S100-A8; S100 calcium binding protein A8; S100 calcium-binding protein A8; S10A8; Urinary stone protein band A; S100A8 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human S100A8
Sequence Length	116
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, edta)
Detection Range	31.2 pg/ml - 2,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for S100A8 elisa kit	Principle of the Assay: The Picokine™ Human S100A8 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human S100A8 with a 96-well strip plate that is pre-coated with antibody specific for S100A8. The detection antibody is a biotinylated antibody specific for S100A8. The capture antibody is monoclonal antibody from mouse and the detection antibody is polyclonal antibody from goat. The kit contains recombinant Human S100A8 with immunogen: Expression system for standard: E.coli; Immunogen sequence: L2-E93. The kit is analytically validated with ready-to-use reagents. To measure Human S100A8, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human S100A8 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human S100A8 in the sample. Background/Introduction: 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 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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	984290540
NCBI GeneID	6279
NCBI Accession #	NP_001306126.1
NCBI GenBank Nucleotide #	NM_001319197.1
UniProt Accession #	P05109; Q5SY70; Q9UC84; Q9UC92; Q9UCJ0; Q9UCM6; A8K5L3; D3DV37
Molecular Weight	10,835 Da
NCBI Official Full Name	protein S100-A8 isoform b
NCBI Official Synonym Full Names	S100 calcium binding protein A8
NCBI Official Symbol	S100A8
NCBI Official Synonym Symbols	P8; MIF; NIF; CAGA; CFAG; CGLA; L1Ag; MRP8; CP-10; MA387; 60B8AG
NCBI Protein Information	protein S100-A8
UniProt Protein Name	Protein S100-A8
UniProt Gene Name	S100A8
UniProt Synonym Gene Names	CAGA; CFAG; MRP8; CFAG; MRP-8; p8

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.