

## Mouse S100A8 PicoKine ELISA Kit | S100a8 elisa kit

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CATALOG #  
**AAA46193**

REACTIVITY  
**Mouse**

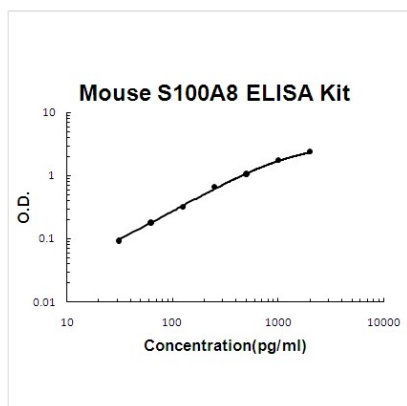
### PRODUCT SYNONYMS

S100A8 PicoKine; Mouse S100A8 PicoKine ELISA Kit; Protein S100-A8; 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; 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 ; S100a8 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                       |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Mouse                                                                                                                                                 |
| Specificity             | Natural and recombinant mouse S100A8                                                                                                                  |
| Sequence Length         | 89                                                                                                                                                    |
| Samples                 | Cell culture supernates, serum and plasma (heparin, EDTA).                                                                                            |
| Assay Type              | Sandwich                                                                                                                                              |
| Detection Range         | 31.2pg/ml-2000pg/ml                                                                                                                                   |
| Sensitivity             | < 10pg/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 between 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)

Mouse S100A8 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

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| Related Product Information for S100a8 elisa kit | <p>Principle of the Assay: The mouse S100A8 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for S100A8 has been precoated onto 96-well plates. Standards (Expression system for standard: E.coli, Immunogen sequence: P2-E89) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for S100A8 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse S100A8 amount of sample captured in plate.</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 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.</p> |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| NCBI GI #                        | 7305453                                             |
| NCBI GeneID                      | 20201                                               |
| NCBI Accession #                 | NP_038678.1                                         |
| NCBI GenBank Nucleotide #        | NM_013650.2                                         |
| UniProt Accession #              | P27005; P31724                                      |
| Molecular Weight                 | 10,295 Da                                           |
| NCBI Official Full Name          | protein S100-A8                                     |
| NCBI Official Synonym Full Names | S100 calcium binding protein A8 (calgranulin A)     |
| NCBI Official Symbol             | S100a8                                              |
| NCBI Official Synonym Symbols    | p8; B8Ag; CFAg; Caga; MRP8; CP-10; 60B8Ag; AI323541 |
| NCBI Protein Information         | protein S100-A8                                     |
| UniProt Protein Name             | Protein S100-A8                                     |
| UniProt Gene Name                | S100a8                                              |
| UniProt Synonym Gene Names       | Caga; Mrp8; MRP-8; p8                               |
| UniProt Entry Name               | S10A8_MOUSE                                         |

**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.

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Online datasheet: <https://stage.aaabiotech.com/mouse-elisa-kits/s100a8-picokine/46193>