

Human S100A12 PicoKine ELISA Kit | S100A12 elisa kit

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CATALOG #
AAA46144

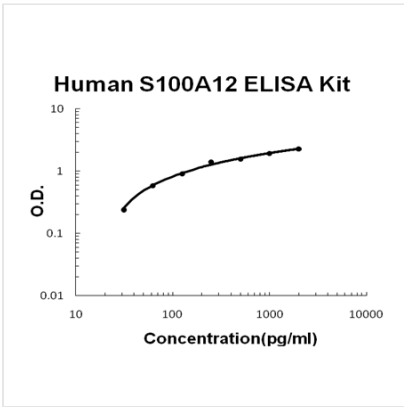
REACTIVITY
Human

PRODUCT SYNONYMS

S100A12 PicoKine; Human S100A12 PicoKine ELISA Kit; Protein S100-A12; CAAF1; CAGC; Calcitermin; Calcium binding protein in amniotic fluid; Calcium-binding protein in amniotic fluid 1; Calgranulin C; Calgranulin related protein; Calgranulin-C; Calgranulin-related protein; CGRP; EN RAGE; EN-RAGE; ENRAGE; Extracellular newly identified RAGE-binding protein; migration inhibitory factor-related protein 6; MRP6; Neutrophil S100 protein; p6; Protein S100 A12; S100 calcium binding protein A12; S100 calcium-binding protein A12 (calgranulin C); S100 calcium-binding protein A12; S100A12; S10AC_HUMAN ; S100A12 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant human S100A12
Sequence Length	92
Assay Range	312pg/ml-20,000pg/ml
Sensitivity	<10pg/ml
Sample	For quantitative detection of human S100A12 in cell culture supernates, serum and plasma(heparin, EDTA).
Immunogen	E Coli, M1-E92
Assay Procedure Step 1	Aliquot 0.1ml per well of the 20,000pg/ml, 10,000pg/ml, 5000pg/ml, 2500pg/ml, 1250pg/ml, 625pg/ml, 312pg/ml human S100A12 standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each human S100A12 standard solution and each sample be measured in duplicate.
Intra-Assay Precision	Inter-Assay Precision Sample 1 2 3 1 2 3 n 16 16 16 24 24 24 Mean(ng/ml) 0.49 1.66 8.37 0.41 1.89 7.14 Standard deviation 0.002 0.097 0.451 0.022 0.113 0.414 CV(%) 5.1 5.9 5.4 5.4 6.0 5.8
Sample Data	Concentration(pg/ml) 0 312 625 1250 2500 5000 10000 20000 O.D. 0.022 0.094 0.161 0.336 0.68 1.267 1.780 2.112
Anticoagulant	Heparin or EDTA
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles.



Standard Curve (Sample)
Human S100A12 PicoKine ELISA Kit standard curve

ADDITIONAL INFORMATION

Related Product Information for S100A12 elisa kit	Principle of the assay: Human S100A12 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for S100A12 has been precoated onto 96-well plates. Standards(E Coli,M1-E92) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for S100A12 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 human S100A12 amount of sample captured in plate. Background: S100 calcium-binding protein A12 (S100A12) is a protein that in humans is encoded by the S100A12 gene. It is also known as calgranulin C. By direct R-banding FISH, the S100A12 gene is mapped to chromosome 1q21.2-q22. The protein encoded by 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. S100 genes include at least 13 members which are located as a cluster on chromosome 1q21. And this protein is proposed to be involved in specific calcium-dependent signal transduction pathways and its regulatory effect on cytoskeletal components may modulate various neutrophil activities.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	5032059
NCBI GeneID	6283
NCBI Accession #	NP_005612.1
NCBI GenBank Nucleotide #	NM_005621.1
UniProt Accession #	P80511; P83219; Q5SY66; Q7M4R1
Molecular Weight	10,575 Da
NCBI Official Full Name	protein S100-A12
NCBI Official Synonym Full Names	S100 calcium binding protein A12
NCBI Official Symbol	S100A12
NCBI Official Synonym Symbols	p6; CAGC; CGRP; MRP6; CAAF1; MRP-6; ENRAGE
NCBI Protein Information	protein S100-A12
UniProt Protein Name	Protein S100-A12

UniProt Gene Name	S100A12
UniProt Synonym Gene Names	CAAF1; CAGC; EN-RAGE; MRP-6; p6
UniProt Entry Name	S10AC_HUMAN

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://www.aaabiotech.com/human-elisa-kits/s100a12-picokine/46144>