

## ARG81516 Human S100A12 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG81516-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81516-002	Standard	2 X 10 ng/vial	4°C
ARG81516-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81516-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81516-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81516-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81516-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81516-008	25X Wash buffer	20 ml	4°C
ARG81516-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81516-010	STOP solution	10 ml (Ready to use)	4°C
ARG81516-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG81516 Human S100A12 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human S100A12 in serum, plasma (heparin, EDTA) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	S100A12
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, plasma (heparin, EDTA) and cell culture supernatants.
Standard Range	31.2 - 2000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 6.3% Inter-Assay CV: 7.7%
Alternate Names	Calgranulin-C; S100 calcium-binding protein A12; p6; Neutrophil S100 protein; Calcium-binding protein in amniotic fluid 1; MRP-6; ENRAGE; Migration inhibitory factor-related protein 6; CAAF1; EN-RAGE; Protein S100-A12; CAGC; Extracellular newly identified RAGE-binding protein; CGRP; MRP6

## Application Instructions

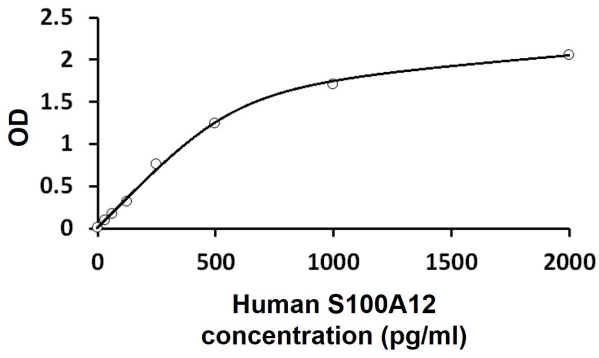
Assay Time	~ 5 hours
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## Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

Gene Symbol	S100A12
Gene Full Name	S100 calcium binding protein A12
Background	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. 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. The protein includes an antimicrobial peptide which has antibacterial activity. [provided by RefSeq, Nov 2014]
Function	S100A12 is a calcium-, zinc- and copper-binding protein which plays a prominent role in the regulation of inflammatory processes and immune response. Its proinflammatory activity involves recruitment of leukocytes, promotion of cytokine and chemokine production, and regulation of leukocyte adhesion and migration. Acts as an alarmin or a danger associated molecular pattern (DAMP) molecule and stimulates innate immune cells via binding to receptor for advanced glycation endproducts (AGER). Binding to AGER activates the MAP-kinase and NF-kappa-B signaling pathways leading to production of proinflammatory cytokines and up-regulation of cell adhesion molecules ICAM1 and VCAM1. Acts as a monocyte and mast cell chemoattractant. Can stimulate mast cell degranulation and activation which generates chemokines, histamine and cytokines inducing further leukocyte recruitment to the sites of inflammation. Can inhibit the activity of matrix metalloproteinases; MMP2, MMP3 and MMP9 by chelating Zn(2+) from their active sites. Possesses filariacidal and filariastatic activity. Calcitermin possesses antifungal activity against C.albicans and is also active against E.coli and P.aeruginosa but not L.monocytogenes and S.aureus. [UniProt]
Highlight	Related products: <a href="#">S100A antibodies</a> ; <a href="#">S100A ELISA Kits</a> ; New ELISA data calculation tool: <a href="#">Simplify the ELISA analysis by GainData</a>



ARG81516 Human S100A12 ELISA Kit standard curve image

ARG81516 Human S100A12 ELISA Kit results of a typical standard run with optical density reading at 450 nm.