

ARG83879 Human S100A1 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83879 Human S100A1 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human S100A1 in Serum, Plasma, Tissue homogenates
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	S100A1
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	0.156 ng/ml
Sample Type	Serum, Plasma, Tissue homogenates
Standard Range	0.312 ng/ml - 20 ng/ml
Sample Volume	100 µl
Alternate Names	S100-alpha; S100; S100A

Application Instructions

Assay Time	3.5 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.

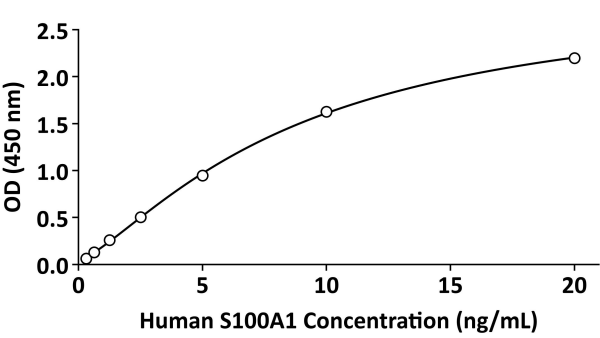
Bioinformation

Gene Symbol	S100A1
Gene Full Name	S100 Calcium Binding Protein A1
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 may function in stimulation of Ca ²⁺ -induced Ca ²⁺ release, inhibition of microtubule assembly, and inhibition of protein kinase C-mediated phosphorylation. Reduced expression of this protein has been implicated in cardiomyopathies. [provided by RefSeq, Jul 2008]
Function	Small calcium binding protein that plays important roles in several biological processes such as Ca ²⁺ homeostasis, chondrocyte biology and cardiomyocyte regulation. In response to an increase in

intracellular Ca(2+) levels, binds calcium which triggers conformational changes. Regulates a network in cardiomyocytes controlling sarcoplasmic reticulum Ca(2+) cycling and mitochondrial function through interaction with RYR1, RYR2, ATP2A2 and mitochondrial F1-ATPase. Facilitates diastolic Ca(2+) dissociation and myofilament mechanics in order to improve relaxation during diastole. [UniProt]

PTM	S-nitrosylated; Phosphorylated. [UniProt]
Cellular Localization	Cytoplasm; Sarcoplasmic reticulum; Mitochondrion; Nucleus. [UniProt]

Images



ARG83879 Human S100A1 ELISA Kit standard curve image

ARG83879 Human S100A1 ELISA Kit results of a typical standard run with optical density reading at 450 nm.