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Datasheet for ABIN1889362 SAA1 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	SAA1
Binding Specificity:	AA 20-122
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	1.56-100 ng/mL
Minimum Detection Limit:	1.56 ng/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse SAA
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: E.coli Immunogen sequence: G20-Y122
Specificity:	Expression system for standard: E.coli Immunogen sequence: G20-Y122
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details		
Sensitivity:	<150pg/mL	
Material not included:	Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette	
	tips. Multichannel pipettes are recommended in the condition of large amount of samples in t	

tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g Nacl

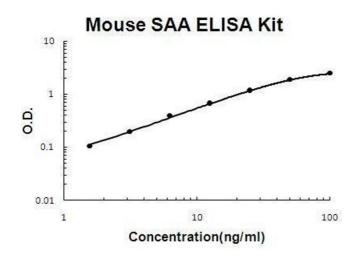
Target Details

Target:	SAA1
Alternative Name:	SAA1 (SAA1 Products)
Background:	Protein Function: Major acute phase protein
	Background: Serum amyloid A protein(SAA), also known as SAA1, is a protein that in humans is
	encoded by the SAA1 gene. This gene encodes a member of the serum amyloid A family of
	apolipoproteins. It is mapped to 11p15.1. SAA is a major acute phase protein that is highly
	expressed in response to inflammation and tissue injury. This protein also plays an important
	role in HDL metabolism and cholesterol homeostasis. High levels of this protein are associated
	with chronic inflammatory diseases including atherosclerosis, rheumatoid arthritis, Alzheimer's
	disease and Crohn's disease. This protein may also be a potential biomarker for certain tumors
	Synonyms: Serum amyloid A-1 protein,Saa1,
	Full Gene Name: Serum amyloid A-1 protein
	Cellular Localisation: Secreted.
Gene ID:	111345
UniProt:	P05366
Pathways:	Toll-Like Receptors Cascades
Application Details	
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
	assay was recommended for both standard and sample testing.
Commonti	Tissue Specificity: Detected in blood plasma (at protein level). Detected in liver
Comment.	rissue specificity. Detected in blood plasma (at protein level). Detected in liver
	Pre-coated
Comment: Plate: Protocol:	
Plate:	Pre-coated

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Application Details

	detection polyclonal antibody from goat specific for SAA 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 SAA amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 10,000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL mouse SAA standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum, plasma(heparin, EDTA) or urine to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse SAA standard solution and each sample be measured in duplicate.
Assay Precision:	 Sample 1: n=16, Mean(ng/ml): 1.4, Standard deviation: 0.06, CV(%): 4.3 Sample 2: n=16, Mean(ng/ml): 3.4, Standard deviation: 0.177, CV(%): 5.2 Sample 3: n=16, Mean(ng/ml): 5.7, Standard deviation: 0.291, CV(%): 5.1, Sample 1: n=24, Mean(ng/ml): 1.5, Standard deviation: 0.081, CV(%): 5.4 Sample 2: n=24, Mean(ng/ml): 3.6, Standard deviation: 0.223, CV(%): 6.2 Sample 3: n=24, Mean(ng/ml): 6.8, Standard deviation: 0.388, CV(%): 5.7
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C
Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months



ELISA

Image 1. Mouse SAA PicoKine ELISA Kit standard curve

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