

ARG81919 Human CD47 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81919-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG81919-002	Standard	2 X 10 ng/vial	4°C
ARG81919-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG81919-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG81919-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG81919-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG81919-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG81919-008	25X Wash buffer	20 ml	4°C
ARG81919-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG81919-010	STOP solution	10 ml (Ready to use)	4°C
ARG81919-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG81919 Human CD47 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CD47 in serum and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	CD47
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	62.5 pg/ml
Sample Type	Serum and cell culture supernatants.
Standard Range	125 - 8000 pg/ml
Sample Volume	100 µl

Precision	Intra-Assay CV: 4.9%; Inter-Assay CV: 6.4%
Alternate Names	Leukocyte surface antigen CD47; CD antigen CD47; Antigenic surface determinant protein OA3; MER6; OA3; Protein MER6; IAP; Integrin-associated protein

Application Instructions

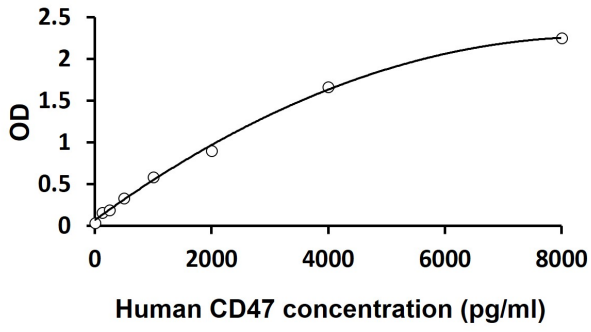
Assay Time	~ 5 hours
------------	-----------

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	CD47
Gene Full Name	CD47 molecule
Background	This gene encodes a membrane protein, which is involved in the increase in intracellular calcium concentration that occurs upon cell adhesion to extracellular matrix. The encoded protein is also a receptor for the C-terminal cell binding domain of thrombospondin, and it may play a role in membrane transport and signal transduction. This gene has broad tissue distribution, and is reduced in expression on Rh erythrocytes. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2010]
Function	Has a role in both cell adhesion by acting as an adhesion receptor for THBS1 on platelets, and in the modulation of integrins. Plays an important role in memory formation and synaptic plasticity in the hippocampus (By similarity). Receptor for SIRPA, binding to which prevents maturation of immature dendritic cells and inhibits cytokine production by mature dendritic cells. Interaction with SIRPG mediates cell-cell adhesion, enhances superantigen-dependent T-cell-mediated proliferation and costimulates T-cell activation. May play a role in membrane transport and/or integrin dependent signal transduction. May prevent premature elimination of red blood cells. May be involved in membrane permeability changes induced following virus infection. [UniProt]
Highlight	Related products: CD47 antibodies ; CD47 ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData



ARG81919 Human CD47 ELISA Kit standard curve image

ARG81919 Human CD47 ELISA Kit results of a typical standard run with optical density reading at 450 nm.