

## ARG82431 Human CD55 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82431-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82431-002	Standard	2 X 10 ng/vial	4°C
ARG82431-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82431-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82431-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82431-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82431-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82431-008	25X Wash buffer	20 ml	4°C
ARG82431-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82431-010	STOP solution	10 ml (Ready to use)	4°C
ARG82431-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82431 Human CD55 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human CD55 in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	CD55
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	156 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	312 - 20000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 5.2% Inter-Assay CV: 6.1%

Alternate Names DAF; CD antigen CD55; CROM; Complement decay-accelerating factor; CR; TC

## Application Instructions

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Assay Time ~ 5 hours

## Properties

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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

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Gene Symbol CD55

Gene Full Name CD55 molecule, decay accelerating factor for complement (Cromer blood group)

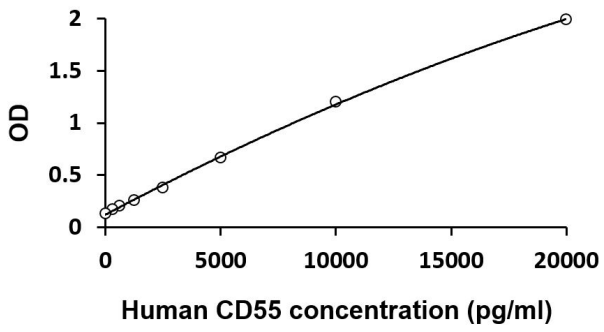
Background This gene encodes a glycoprotein involved in the regulation of the complement cascade. Binding of the encoded protein to complement proteins accelerates their decay, thereby disrupting the cascade and preventing damage to host cells. Antigens present on this protein constitute the Cromer blood group system (CROM). Alternative splicing results in multiple transcript variants. The predominant transcript variant encodes a membrane-bound protein, but alternatively spliced transcripts may produce soluble proteins. [provided by RefSeq, Jul 2014]

Function This protein recognizes C4b and C3b fragments that condense with cell-surface hydroxyl or amino groups when nascent C4b and C3b are locally generated during C4 and c3 activation. Interaction of daf with cell-associated C4b and C3b polypeptides interferes with their ability to catalyze the conversion of C2 and factor B to enzymatically active C2a and Bb and thereby prevents the formation of C4b2a and C3bBb, the amplification convertases of the complement cascade. [UniProt]

Highlight Related products:  
[CD55 antibodies](#); [CD55 ELISA Kits](#);  
New ELISA data calculation tool:  
[Simplify the ELISA analysis by GainData](#)

PTM The Ser/Thr-rich domain is heavily O-glycosylated. [UniProt]

Cellular Localization Isoform 1: Cell membrane; Single-pass type I membrane protein. Isoform 2: Cell membrane; Lipid-anchor, GPI-anchor. Isoform 3: Secreted. Isoform 4: Secreted. Isoform 5: Secreted. Isoform 6: Cell membrane; Lipid-anchor, GPI-anchor. Isoform 7: Cell membrane; Lipid-anchor, GPI-anchor. [UniProt]



ARG82431 Human CD55 ELISA Kit standard curve image

ARG82431 Human CD55 ELISA Kit results of a typical standard run with optical density reading at 450 nm.