ARG83228
Human Complement C2 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83228 Human Complement C2 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Complement C2 in Serum, Plasma, Urine and Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Complement C2
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	25 pg/ml
Detection Range	312 pg/ml - 20,000 pg/ml
Sample Type	Serum, Plasma, Urine and Cell culture supernatants
Precision	Intra-Assay CV: 4.7% Inter-Assay CV: 3.7%
Alternate Names	C2; Complement C2; Complement Component 2; C3/C5 Convertase; EC 3.4.21.43; Complement Component C2; EC 3.4.21; ARMD14; CO2

Application Instructions

Assay Time	~ 5 hours

Properties

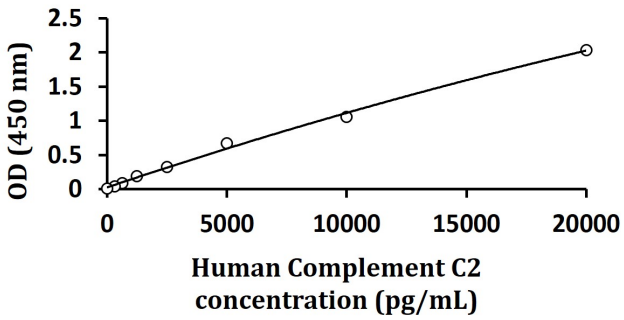
Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory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

Bioinformation

Gene Symbol	C2
Gene Full Name	Complement C2
Background	Component C2 is a serum glycoprotein that functions as part of the classical pathway of the complement system. Activated C1 cleaves C2 into C2a and C2b. The serine proteinase C2a then combines with complement factor 4b to create the C3 or C5 convertase. Deficiency of C2 has been reported to associated with certain autoimmune diseases and SNPs in this gene have been associated with altered susceptibility to age-related macular degeneration. This gene localizes within the class III region of the MHC on the short arm of chromosome 6. Alternative splicing results in multiple transcript

	variants encoding distinct isoforms. Additional transcript variants have been described in publications but their full-length sequence has not been determined.
Function	Component C2 which is part of the classical pathway of the complement system is cleaved by activated factor C1 into two fragments: C2b and C2a. C2a, a serine protease, then combines with complement factor C4b to generate the C3 or C5 convertase.
PTM	Disulfide bond, Glycoprotein
Cellular Localization	Secreted

Images



ARG83228 Human Complement C2 ELISA Kit standard curve image

ARG83228 Human Complement C2 ELISA Kit results of a typical standard run with optical density reading at 450 nm.