

ARG83884 Human C5 / Complement 5 ELISA Kit

Package: 96 wells

Store at: 4°C

Summary

Product Description	ARG83884 Human C5 / Complement 5 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human C5 / Complement 5 in Serum, Plasma, Cell culture supernatants
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	C5 / Complement 5
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	15.6 pg/ml
Sample Type	Serum, Plasma, Cell culture supernatants
Standard Range	31.25 pg/ml - 2000 pg/ml
Sample Volume	100 µl
Alternate Names	ECLZB; CPAMD4; Complement C5; C5D; C5b; C5a; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4

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	C5
Gene Full Name	complement component 5
Background	This gene encodes a component of the complement system, a part of the innate immune system that plays an important role in inflammation, host homeostasis, and host defense against pathogens. The encoded preproprotein is proteolytically processed to generate multiple protein products, including the C5 alpha chain, C5 beta chain, C5a anaphylatoxin and C5b. The C5 protein is comprised of the C5 alpha and beta chains, which are linked by a disulfide bridge. Cleavage of the alpha chain by a convertase enzyme results in the formation of the C5a anaphylatoxin, which possesses potent spasmogenic and chemotactic activity, and the C5b macromolecular cleavage product, a subunit of the membrane attack complex (MAC). Mutations in this gene cause complement component 5 deficiency, a disease characterized by recurrent bacterial infections. Alternative splicing results in multiple transcript

variants.

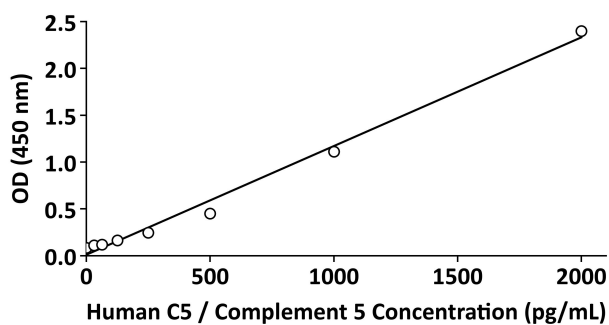
Function

Precursor of the C5a anaphylatoxin and complement C5b components of the complement pathways, which consist in a cascade of proteins that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system. Activated downstream of classical, alternative, lectin and GZMK complement pathways. [C5a anaphylatoxin]: Mediator of local inflammatory process released following cleavage by C5 convertase. Acts by binding to its receptor (C5AR1 or C5AR2), activating G protein-coupled receptor signaling and inducing a variety of responses including intracellular calcium release, contraction of smooth muscle, increased vascular permeability, and histamine release from mast cells and basophilic leukocytes. C5a is also a potent chemokine which stimulates the locomotion of polymorphonuclear leukocytes and directs their migration toward sites of inflammation. [Uniprot]

PTM

Disulfide bond, Glycoprotein. [Uniprot]

Images



ARG83884 Human C5 / Complement 5 ELISA Kit standard curve image

ARG83884 Human C5 / Complement 5 ELISA Kit results of a typical standard run with optical density reading at 450 nm.