

ARG81091 Mouse Complement C3 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG81091-001	Antibody-coated microplate	12 x 8 strips	4°C
ARG81091-002	Standard	1 vial (lyophilized)	4°C, -80 °C after reconstitution.
ARG81091-003	HRP-conjugated anti-C3 Primary antibody	1 vial (lyophilized)	4°C, -80 °C after reconstitution.
ARG81091-004	10X Wash Solution	50 ml	4°C
ARG81091-005	TMB substrate	10 ml (ready-to-use)	4°C (Protect from light)

Summary

Product Description	ARG81091 Mouse Complement C3 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Mouse Complement C3 in plasma, serum and cell culture supernatants.
Tested Reactivity	Ms
Tested Application	ELISA
Target Name	Complement C3
Conjugation	HRP
Conjugation Note	TMB substrate is used for color development at 450 nm.
Sensitivity	0.168 ng/ml
Detection Range	0.2 - 100 ng/ml
Sample Type	Plasma, serum and cell culture supernatants
Alternate Names	ASP; AI255234; Plp; HSE-MSF; C3bc; Complement C3; C3adesArg

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

Database links	GenelD: 12266 Mouse
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Swiss-port # P01027 Mouse

Gene Symbol	C3
Gene Full Name	complement component 3
Background	This gene encodes complement protein C3 which plays a central role in the classical, alternative and lectin activation pathways of the complement system. The encoded preproprotein undergoes a multi-step processing to generate various functional peptides. Mice deficient in the encoded protein fail to clear bacteria from the blood stream upon infection, display diminished airway hyperresponsiveness and lung eosinophilia upon allergen-induced pulmonary allergy, and develop severe lung injury after deposition of IgG immune complexes. Deficiency of the homolog of the encoded protein in humans was found to be associated with increased susceptibility to infections, age-related macular degeneration, and atypical hemolytic uremic syndrome. [provided by RefSeq, Mar 2015]
Function	C3 plays a central role in the activation of the complement system. Its processing by C3 convertase is the central reaction in both classical and alternative complement pathways. After activation C3b can bind covalently, via its reactive thioester, to cell surface carbohydrates or immune aggregates.
	Derived from proteolytic degradation of complement C3, C3a anaphylatoxin is a mediator of local inflammatory process. In chronic inflammation, acts as a chemoattractant for neutrophils (By similarity). It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes. The short isoform has B-cell stimulatory activity.
	C3-beta-c: Acts as a chemoattractant for neutrophils in chronic inflammation.
	Acylation stimulating protein: adipogenic hormone that stimulates triglyceride (TG) synthesis and glucose transport in adipocytes, regulating fat storage and playing a role in postprandial TG clearance. Appears to stimulate TG synthesis via activation of the PLC, MAPK and AKT signaling pathways. Ligand for C5AR2. Promotes the phosphorylation, ARRB2-mediated internalization and recycling of C5AR2. [UniProt]
Highlight	Related products: Complement component antibodies ; Complement component ELISA Kits ; Complement component Duos / Panels ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData
Research Area	Signaling Transduction kit

Images

