

Product datasheet

info@arigobio.com

ARG10710 Package: 50 µl anti-Complement C3 (alpha chain, netrin domain) antibody [6E8] Store at: -20°C

Summary

Product Description Mouse Monoclonal antibody [6E8] recognizes Complement C3 (alpha chain, netrin domain)

Tested Reactivity Hu

Species Does Not React With Bov, Goat, Rb

Tested Application WB

Host Mouse

Clonality Monoclonal

Clone 6E8 Isotype IgG1

Target Name Complement C3 (alpha chain, netrin domain)

Species Human

Immunogen Recombinant netrin domain of Human C3

Conjugation Un-conjugated

Alternate Names CPAMD1; HEL-S-62p; ASP; ARMD9; C3a; C3b; C3bc; Complement C3; C3adesArg; AHUS5; C3 and PZP-

like alpha-2-macroglobulin domain-containing protein 1

Application Instructions

Application table	Application	Dilution
	WB	1:1000 - 1:5000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

Properties

Form Liquid

Purification Purification with Protein G.

Buffer PBS and 50% Glycerol.

Stabilizer 50% Glycerol

Concentration 1 mg/ml

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links GenelD: 718 Human

Swiss-port # P01024 Human

Gene Symbol C3

Gene Full Name complement component 3

Background Complement component C3 plays a central role in the activation of complement system. Its activation

is required for both classical and alternative complement activation pathways. A peptide (C3a) derived from the encoded protein has antimicrobial activity, so people with C3 deficiency are susceptible to

bacterial infection. [provided by RefSeq, Nov 2014]

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.

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]

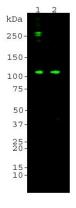
Calculated Mw 187 kDa

PTM C3b is rapidly split in two positions by factor I and a cofactor to form iC3b (inactivated C3b) and C3f

which is released. Then iC3b is slowly cleaved (possibly by factor I) to form C3c (beta chain + alpha' chain fragment 1 + alpha' chain fragment 2), C3dg and C3f. Other proteases produce other fragments such as C3d or C3g. C3a is further processed by carboxypeptidases to release the C-terminal arginine residue generating the acylation stimulating protein (ASP). Levels of ASP are increased in adipocytes in

the postprandial period and by insulin and dietary chylomicrons. Phosphorylated by FAM20C in the extracellular medium.

Images



ARG10710 anti-Complement C3 (alpha chain, netrin domain) antibody [6E8] WB image

Western blot: 1) 0.1 μg of purified Human C3 protein, and 2) 10 μg of normal Human serum protein were stained with ARG10710 anti-Complement C3 (alpha chain, netrin domain) antibody [6E8] at 1:3000 dilution. The monoclonal antibodies binds strongly and cleanly to a band at about 115 kDa which represents the intact α subunit of C3 and a weaker proteolytic band at approximately 40 kDa. Bands at 190 kDa and above are likely the pro-C3 and its glycosylated form.