



Anti-C3 monoclonal antibody, clone 10-21 (CABT-45011MH)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview

This product recognises 9 kDa complement component 3a (C3a) which is present in the blood serum. C3a is generated over the course of complement activation where complement 3 (C3) convertases cleave C3 to C3a and C3b, which is further degraded into iC3b and C3dg/C3d. C3 is crucial in the induction of tolerance generated when an antigen is introduced into immunoprivileged sites and this is exploited by pathogens and cancer cells to evade the immune system by inhibiting complement activation. C3a mediates local inflammatory process. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes. C3a is expressed at significantly higher levels in colorectal cancer. shows minimal reactivity with other complement proteins in radioimmunoassays and haemagglutination. Clone 10-21 has been reported to work in western blotting applications.

Specificity	C3
Immunogen	Native purified human C3a
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	10-21
Conjugate	Unconjugated
Applications	ELISA; WB
Format	Purified IgG - liquid
Size	100 µl
Preservative	0.1% Sodium Azide (NaN ₃)
Storage	in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

GENE INFORMATION

Gene Name	C3 complement component 3 [Homo sapiens (human)]
Official Symbol	C3
Synonyms	C3; complement component 3; ASP; C3a; C3b; AHUS5; ARMD9; CPAMD1; HEL-S-62p; complement C3; prepro-C3; C3a anaphylatoxin; complement component C3; complement component C3a; complement component C3b; acylation-stimulating protein cleavage product; epididymi
Entrez Gene ID	718
mRNA Refseq	NM_000064
Protein Refseq	NP_000055
MIM	120700
UniProt ID	P01024
Chromosome Location	19p13.3-p13.2
Pathway	Activation of C3 and C5; Adaptive Immune System; Alternative complement activation; Chagas disease (American trypanosomiasis); Class A/1 (Rhodopsin-like receptors); Complement Activation, Classical Pathway; Complement and Coagulation Cascades; Complement and coagulation cascades;
Function	C5L2 anaphylatoxin chemotactic receptor binding; endopeptidase inhibitor activity; protein binding; receptor binding;