

Mouse Anti-C5 Monoclonal Antibody

Cat. No. DMABT-H19243 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Mouse Anti-C5 Monoclonal Antibody
Species	Human
Source	Mouse
Antigen Description	C5, complement component 5, is a protein involved in the complement system. It is cleaved into C5a and C5b by the C3/C5 convertase. The smaller fragment C5a is an anaphylatoxin and is released into the fluid surroundings. C5a is a mediator of local inflammatory process. It induces the contraction of smooth muscle, increases vascular permeability and causes histamine release from mast cells and basophilic leukocytes. C5a also stimulates the locomotion of polymorphonuclear leukocytes (chemokinesis) and direct their migration toward sites of inflammation (chemotaxis). C5a contains 74 amino acids and is rapidly metabolised by a serum enzyme, carboxypeptidase B to a 73 amino acid form, C5a des-Arg. The major fragment C5b binds to the membrane initiating the spontaneous assembly of the late complement components, C5-C9, into the membrane attack complex.
Target	C5
Immunogen	Human C5a
Isotype	IgG1, kappa
species	Human

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Conjugation	Biotin
Applications	ELISA,WB,IP
Preparation	The antibody was purified by affinity chromatography and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin and unconjugated antibody.
Usage recommendation	Each lot of this antibody is quality control tested by ELISA assay. For ELISA detection applications, a concentration range of 0.25-1 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of C5a recombinant protein ranging from 15.6 to 1000 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.
Concentration	0.5 mg/ml
Storage	The antibody solution should be stored undiluted at 4 °C and protected from prolonged exposure to light.Do not freeze.
Size	50 µg;500 µg

GENE INFORMATION

Gene Name	C5 complement component 5 [Homo sapiens]
Official Symbol	C5
Synonyms	C5; complement component 5; complement C5; CPAMD4; anaphylatoxin C5a analog; C3 and PZP-like alpha-2-macroglobulin domain-containing protein 4; FLJ17816; FLJ17822; MGC142298;

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Gene ID	727
mRNA Refseq	NM_001735
Protein Refseq	NP_001726
MIM	120900
UniProt ID	P01031
Chromosome Location	9q33-q34
Pathway	Activation of C3 and C5, organism-specific biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Complement Activation, Classical Pathway, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem; Complement cascade, organism-specific biosystem; G alpha (i) signalling events, organism-specific biosystem;
Function	C5a anaphylatoxin chemotactic receptor binding; chemokine activity; endopeptidase inhibitor activity; receptor binding;