

Anti-Complement component C3a/C3a(desArg)/C3 (human)**Mouse monoclonal antibody**

Subclass: IgG1/k

Clone: D17/1

CAT. NO.

GAU 017-01

SPECIFICITY	Recognizes an epitope that is present on human C3, C3a and C3a (desArg). Does not cross-react with C4a or C5a.
IMMUNOGEN	Human C3a
TESTED APPLICATIONS	ELISA, WB
SPECIES REACTIVITY (POSITIVE)	Human
SPECIES REACTIVITY (NEGATIVE)	Not determined
EPITOPE SPECIFICITY	GAU 017-01 recognizes different epitopes on the 9 kDa C3a than GAU 013-16. No reaction is seen with a synthetic octapeptide representing the C3a C-terminal.

PRESENTATION

Content:	Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.
Preparation:	Protein-A purified
Form:	Liquid
Solvent:	0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide
Storage:	4-8°C without exposure to light. No precautions necessary during handling.

APPLICATION	ELISA: GAU 017-01 can be used as a biotinylated detection antibody in sandwich ELISA with GAU 013-16 capture antibody (1-5). Does not inhibit the biological activity of C3a (1). WB: GAU 017-01 can be used in Western blotting (1, 4, 5).
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TARGET	Complement C3a is an anaphylatoxin of 77 amino acid residues released by the action of the C3 convertases on the N-terminal of the alpha chain of C3. It is rapidly inactivated by serum carboxypeptidase N which removes the C-terminal arginine residue generating C3a (desArg).
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REFERENCES	<ol style="list-style-type: none">1. Nezlín R, Freywald A, Oppermann M (1993) Proteins separated from human IgG molecules. Mol. Immunol. 30:935-940.2. Oppermann M, Liebmann F, Götze O. (1987) Purification and quantification of human C3a anaphylatoxin using monoclonal antibodies. Complement 4:205-2063. Oppermann M, Haubitz M, Quintin E, Götze O (1988) Complement activation in patients with renal failure as detected through the quantitation of fragments of the complement proteins C3, C5, and Factor B. Klin Wochenschr 66:857-864.4. Puschel GP, Oppermann M, Muschol W, Gotze O, Jungermann K. (1989) Increase of glucose and lactate output and decrease of flow by human anaphylatoxin C3a but not C5a in perfused rat liver. FEBS Lett. 16:243(1):83-7.5. Negishi A, Ono M, Handa Y, Kato H, Yamashita K, Honda K, Shitashige M, Satow R, Sakuma T, Kuwabara H, Omura K, Hirohashi S, Yamada T (2009) Large-scale quantitative clinical proteomics by label-free liquid chromatography and mass spectrometry. Cancer Sci 100:514-519.
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