

Anti-Complement component C3a/C3a(desArg)/C3 (human)

CAT. NO. GAU 017-01B

OVERVIEW

Product Name	Anti-Complement component C3a/C3a(desArg)/C3 (human)	Conjugation	Biotin
Description	Mouse monoclonal antibody, biotinylated	Host	Mouse
Isotype	IgG1/k	Clone	D17/1
Tested Applications	ELISA, IHC		

SPECIFICITY

Specificity	Recognizes an epitope that is present on human C3, C3a and C3a (desArg). Does not cross-react with C4a or C5a. 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.
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Immunogen	Human C3a	Gene ID	718
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).		
Species Reactivity POSITIVE	Human	Species Reactivity NEGATIVE	Not determined

PROPERTIES

Form	Liquid	Unit Size	0,15 mL
Concentration	1 mg/mL ±15%, See CoA for lot details		
Purification	Protein A or Protein G purified	Purification Notes	BSA free
Storage buffer	0.01 M phosphate buffer, pH 7.4, with 0.14 M NaCl and 15 mM sodium azide		
Storage condition	2-8°C without exposure to light		
Safety	Wear protective clothing		

TESTED APPLICATIONS

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)
IHC	GAU 017-01B was used in IHC on human appendix section.

SCIENTIFIC REFERENCES

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3. 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.

CONDITIONS

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4. Khodoun M, Strait R, Orekov T, Hogan S, Karasuyama H, Herbert DBR, Köhl J, Finkelman FD (2009) Peanuts can contribute to anaphylactic shock by activating complement. *J Allergy Clin Immunol* 123:342-351.
5. Thomas SN, van der Vlies AJ, O'Neil CP, Reddy ST, Yu SS, Giorgio TD, Swartz MA, Hubbell JA (2011) Engineering complement activation on polypropylene sulfide vaccine nanoparticles. *Biomaterials* 32: 2194-2203.

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