

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

CAT. NO. GAU 017-01

OVERVIEW

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

SPECIFICITY

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

PROPERTIES

Form	Liquid	Unit Size	0,4 mL and 1 mL
Concentration	1 mg/mL \pm 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 0.5 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)
WB	GAU 017-01 can be used in Western blotting. (1, 4, 5)

SCIENTIFIC REFERENCES

1. Nezlin 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 4:205-206
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.
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.

CONDITIONS

Unless otherwise marked, all products are for research use only. Not for use in diagnostic procedures. Not for use in human therapeutic applications. For in vitro use or further manufacture only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The foregoing is in lieu of all warranties, expressed or implied, including implied warranties of merchantability and fitness for a particular purpose. In no event shall BioPorto Diagnostics A/S be responsible for loss of profits or indirect consequential losses resulting from use of its products.

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.

CONDITIONS

Unless otherwise marked, all products are for research use only. Not for use in diagnostic procedures. Not for use in human therapeutic applications. For in vitro use or further manufacture only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The foregoing is in lieu of all warranties, expressed or implied, including implied warranties of merchantability and fitness for a particular purpose. In no event shall BioPorto Diagnostics A/S be responsible for loss of profits or indirect consequential losses resulting from use of its products.