Purified Rabbit Anti-human C3aR

Catalog Number: TP504

Lot Number: 080718

Content: Protein A purified rabbit IgG, 200 μg, with 0.1% sodium azide, lyophilized.

(Reconstitute to 1 mg/ml by adding 200 μ l H₂O)

Product Description and Usage: For research use only. This polyclonal antibody, which reacts with the human C3a receptor, was generated using *E. coli*-expressed human C3a receptor fragment (amino acids 161-332, corresponding to its second extracellular loop) as an immunogen. The antibody recognizes C3a receptor expressed in leukocytes and in transfected cells using flow cytometry.

Cross-reactivity to C3a receptor of other species has not been determined.

Storage Condition: 4°C for short term storage or -20°C in small aliquots for long term storage. Avoid repeated freeze and thaw.

Background: C3a is an anaphylatoxin generated through activation of the complement C3. C3a is a potent chemoattractant for phagocytes, and it stimulates chemotaxis and other leukocyte functions. C3a binds to eosinophils, basophils, neutrophils, and

Torrey Pines Biolabs Inc 360 Glenwood Ave, 2nd Fl, Bldg 7 East Orange, NJ 07017 web:www.chemokine.com

differentiated U937 cells, that all express receptors for C3a on their cell surface. The C3a receptor has been cloned and shown to be a G protein-coupled with seven putative receptor domains^{1,2}. transmembrane This receptor is characterized for its large extracellular loop between the fourth and fifth transmembrane domains³. The loop can be readily detected using the rabbit anti-C3a receptor antibody.

References:

- Crass, T, et al. (1996) Expression cloning of the human C3a anaphylatoxin receptor (C3aR) from differentiated U-937 cells. Eur. J. Immunol. 26:1944-50.
- Ames, R.S., et al. (1996) Molecular cloning and characterization of the human anaphylatoxin C3a receptor. J. Biol. Chem. 23:20231-4.
- Roglic S. et al., (1996) cDNA cloning of a novel G protein-coupled receptor with a large extracellular loop structure. Biochim. Bioiphys. Acta 1305:39-43.

Tel: (973)266-8977 Toll free: (866)383-8144 Fax: (973)266-9983 E-mail:tpbi@chemokine.com