

DESCRIPTION

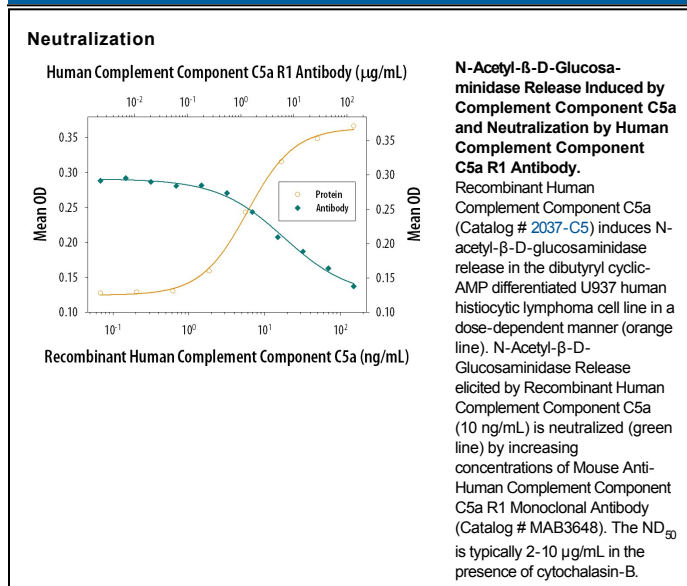
| | |
|---------------------------|---|
| Species Reactivity | Human |
| Specificity | Detects human Complement Component C5a R1. Stains human Complement Component C5a R1 transfected cells but not irrelevant transfectants. |
| Source | Monoclonal Mouse IgG _{2A} Clone # 347214 |
| Purification | Protein A or G purified from hybridoma culture supernatant |
| Immunogen | NS0 mouse myeloma cell line transfected with human Complement Component C5a R1 Met1-Val350 Accession # P21730 |
| Endotoxin Level | <0.10 EU per 1 µg of the antibody by the LAL method. |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|-----------------------|--|-------------------------------------|
| Flow Cytometry | 2.5 µg/10 ⁶ cells | Human peripheral blood granulocytes |
| CyTOF-ready | Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation. | |
| Neutralization | Measured by its ability to neutralize Complement Component C5a-induced N-acetyl-β-D-glucosaminidase release in the dibutyl cyclic-AMP differentiated U937 human histiocytic lymphoma cell line. Kios, A. <i>et al.</i> (1992) <i>Biochemistry</i> 31:11274. The Neutralization Dose (ND ₅₀) is typically 2-10 µg/mL in the presence of 10 ng/mL Recombinant Human Complement Component C5a and cytochalasin-B. | |

DATA



PREPARATION AND STORAGE

| | |
|--------------------------------|--|
| Reconstitution | Reconstitute at 0.5 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C |
| Stability & Storage | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

Complement Component C5a R1 (C5aR1), also known as C5a ligand and CD88, is a 7TM protein expressed on myeloid, endothelial, epithelial, and smooth muscle cells. C5aR binds the activated complement anaphylatoxin C5a. In established allergic environments, this triggers neutrophil and eosinophil chemotaxis and the release of proinflammatory mediators. In contrast, C5aR1/C5a interactions are protective during allergen sensitization. Human C5aR1 shares 66% amino acid sequence identity with mouse and rat C5aR.