

Mouse Complement Component C5a R1 Alexa Fluor® 405-conjugated Antibody

Monoclonal Rat IgG_{2B} Clone # 583837

Catalog Number: FAB6467V
100 µg

DESCRIPTION

Species Reactivity	Mouse
Specificity	This antibody detects mouse Complement Component C5a R1 in direct ELISAs.
Source	Monoclonal Rat IgG _{2B} Clone # 583837
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with mouse Complement Component C5a R1 Accession # P30993
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details. *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

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	0.25-1 µg/10 ⁶ cells	J774A.1 mouse reticulum cell sarcoma macrophage cell line

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

C5a R1, also known as C5a ligand and CD88, is a 7TM protein expressed on myeloid, endothelial, epithelial, and smooth muscle cells. C5a R1 binds the activated complement anaphylatoxin C5a. In established allergic environments, this triggers neutrophil and eosinophil chemotaxis and the release of proinflammatory mediators. In contrast, C5a R1/C5a interactions are protective during allergen sensitization. Mouse C5a R1 shares 66% and 77% amino acid sequence identity with human and rat C5a R, respectively.

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