

Mouse Complement Component C3aR Antibody

Monoclonal Rat IgG_{2A} Clone # 620613 Catalog Number: MAB10417

DESCRIPTION	
Species Reactivity	Mouse
Specificity	Detects mouse C3aR in direct ELISAs.
Source	Monoclonal Rat IgG _{2A} Clone # 620613
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Chinese hamster ovary cell line CHO-derived transfected with mouse C3aR Accession # 009047
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 either lyophilized or as a 0.2 µm filtered solution in PBS.

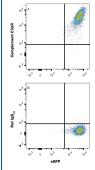
APPLICATIONS

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 Sample Concentration
Flow Cytometry	0.25 μg/10 ⁶ cells See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.

DATA

Flow Cytometry



Detection of Complement Component C3aR in HEK293 Human Cell Line Transfected with Mouse Complement Component C3aRand eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with mouse Complement Component C3aR and eGFP was stained with (A) Rat Anti-Mouse Complement Component C3aR Monoclonal Antibody (Catalog # MAB10417) or (B) Rat IgG2a isotype control antibody (Catalog # MAB006) followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113). View our protocol for Staining Membrane-associated Proteins.

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.

- 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 3a receptor (C3a R) is an ~90 kDa G-protein coupled 7-transmembrane sulfated glycoprotein expressed on myeloid peripheral blood leukocytes, and on activated lymphocytes, endothelial and internal organ epithelial cells. Engagement of C3a R by C3a activates mast cells and neutrophils, triggering degranulation in airways during asthmatic allergen challenges. It assists in Th2-type inflammatory reactions and stimulates leukocyte chemotaxis. Human C3a R extracellular regions share 50% and 42% amino acid identity with mouse and rat C3a R, respectively.

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