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30-2882AF-647: Alexa Fluor 647 Conjugated Anti-Human C3aR Mab (Clone: HC3aRZ8)

Clonality :	Monoclonal
Clone Name :	HC3aRZ8
Application :	FACS
Reactivity :	Human
Gene :	C3AR1
Gene ID :	719
Uniprot ID :	Q16581
Alternative Name :	AZ3B, HNFAG09
Isotype :	Mouse IgG2b
Immunogen Information :	Human C3aR transfectants

Description

Specificity : The mouse monoclonal antibody HC3aRZ8 recognizes an extracellular epitope of C3aR, a transmembrane chemotactic receptor for C3a anaphylatoxin.

C3aR is a 7TM transmembrane protein associated with G proteins, and serves as a receptor for C3a complement fragment. It is expressed mainly on neutrophils, mast cells, basophils, eosinophils, dendritic cells, monocytes, and macrophages. Upon detection of its ligand, the activated C3aR signaling cascade results in degranulation, superoxide production, and chemotaxis.

Product Info

Amount :	100 tests
Purification :	Purified antibody is conjugated with Alexa Fluor® 647 NHS ester under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
Content :	Formulation : Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage condition :	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Application Note

Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

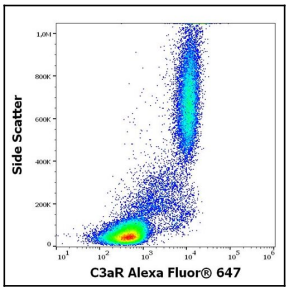

Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human C3aR (HC3aRZ8) Alexa Fluor® 647 antibody (4 µl reagent / 100 µl of peripheral whole blood).

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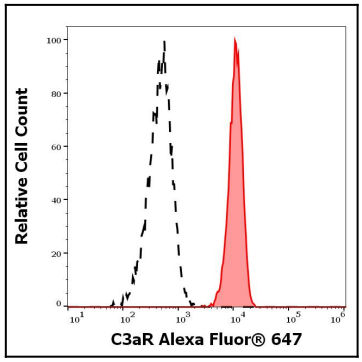

Figure 2: Separation of human neutrophil granulocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human C3aR (HC3aRZ8) Alexa Fluor® 647 antibody (4 µl reagent / 100 µl of peripheral whole blood).

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