

### 30-2882PE: PE Conjugated Anti-Human C3aR Mab (Clone: HC3aRZ8)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	HC3aRZ8
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Conjugate :</b>	PE
<b>Gene :</b>	C3AR1
<b>Gene ID :</b>	719
<b>Uniprot ID :</b>	Q16581
<b>Alternative Name :</b>	AZ3B, HNFAG09
<b>Isotype :</b>	Mouse IgG2b
<b>Immunogen Information :</b>	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

<b>Amount :</b>	100 tests
<b>Purification :</b>	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.
<b>Content :</b>	Formulation : Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
<b>Storage condition :</b>	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<sup>6</sup> cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests.

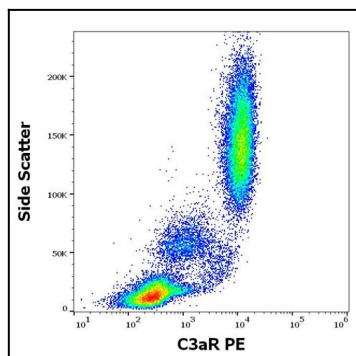


Figure 1: Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human C3aR (HC3aRZ8) PE antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).

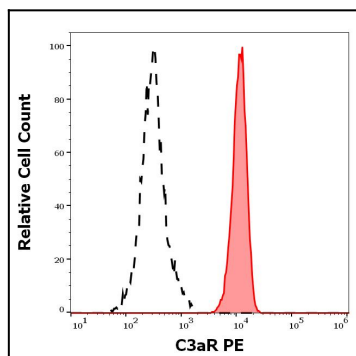


Figure 2: Separation of human neutrophil granulocytes (red-filled) from lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human C3aR (HC3aRZ8) PE antibody (10  $\mu$ l reagent / 100  $\mu$ l of peripheral whole blood).