

## ARG22557 anti-CD88 / C5AR1 antibody [10/92] (Biotin)

Package: 100 µg  
Store at: 4°C

### Summary

<b>Product Description</b>	Biotin-conjugated Rat Monoclonal antibody [10/92] recognizes CD88 / C5AR1 This antibody recognizes murine CD88, a 45 kDa G-protein coupled cell surface receptor, otherwise known as C5aR. The CD88 molecule functions as a receptor for the complement component C5a, a potent proinflammatory molecule and chemoattractant for neutrophils to sites of infection. In mouse, CD88 is expressed on granulocytes, monocytes and macrophages but not on resting or stimulated lymphocytes. Rat anti Mouse CD88 antibody, clone 10/92 does not block the binding of the C5a to murine CD88 (Souri et al. 2003).
<b>Tested Reactivity</b>	Ms
<b>Tested Application</b>	FACS
<b>Host</b>	Rat
<b>Clonality</b>	Monoclonal
<b>Clone</b>	10/92
<b>Isotype</b>	IgG2a
<b>Target Name</b>	CD88 / C5AR1
<b>Species</b>	Mouse
<b>Immunogen</b>	RBL-2H3 transfected cells expressing murine CD88 / C5aR.
<b>Conjugation</b>	Biotin
<b>Alternate Names</b>	CD88; C5R1; C5AR; CD antigen CD88; C5a anaphylatoxin chemotactic receptor 1; C5a anaphylatoxin chemotactic receptor; C5A; C5aR; C5a-R

### Application Instructions

<b>Application table</b>	Application	Dilution
	FACS	Neat

**Application Note** FACS: Use 10ul of the suggested working dilution to label 10<sup>6</sup> cells in 100ul.  
\* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

### Properties

<b>Form</b>	Liquid
<b>Purification</b>	Purification with Protein G.
<b>Buffer</b>	PBS, 0.09% Sodium azide and 1% BSA.
<b>Preservative</b>	0.09% Sodium azide
<b>Stabilizer</b>	1% BSA
<b>Concentration</b>	0.1 mg/ml

**Storage instruction** Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

**Note** For laboratory research only, not for drug, diagnostic or other use.

## Bioinformation

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<b>Gene Symbol</b>	C5ar1
<b>Gene Full Name</b>	complement component 5a receptor 1
<b>Function</b>	Receptor for the chemotactic and inflammatory peptide anaphylatoxin C5a. The ligand interacts with at least two sites on the receptor: a high-affinity site on the extracellular N-terminus, and a second site in the transmembrane region which activates downstream signaling events. Receptor activation stimulates chemotaxis, granule enzyme release, intracellular calcium release and superoxide anion production. [UniProt]
<b>Calculated Mw</b>	39 kDa
<b>PTM</b>	Sulfation plays a critical role in the association of C5aR with C5a, but no significant role in the ability of the receptor to transduce a signal and mobilize calcium in response to a small peptide agonist (PubMed:11342590). Sulfation at Tyr-14 is important for CHIPS binding (PubMed:21706042). Phosphorylated on serine residues in response to C5a binding, resulting in internalization of the receptor and short-term desensitization to the ligand. The key residues involved in this process are Ser-334 and Ser-338.