

## ARG22560 anti-CD88 / C5AR1 antibody [20/70] (PE)

Package: 100 tests  
Store at: 4°C

### Summary

Product Description	PE-conjugated Rat Monoclonal antibody [20/70] recognizes CD88 / C5AR1 This antibody recognizes murine CD88, also known as C5a anaphylatoxin chemotactic receptor 1 (C5aR1), a member of the G-protein coupled receptor 1 family. CD88 is a ~45kDa multi pass membrane protein and functions as a receptor for the complement component C5a, a potent proinflammatory molecule and a chemoattractant for neutrophils to sites of infection. In mouse, CD88 is expressed on granulocytes, monocytes and macrophages but not on resting or stimulated lymphocytes. Clone 20/70 has been reported to block the binding of the C5a to murine CD88, (Soruri et al. 2003).
Tested Reactivity	Ms
Tested Application	FACS
Host	Rat
Clonality	Monoclonal
Clone	20/70
Isotype	IgG2b
Target Name	CD88 / C5AR1
Species	Mouse
Immunogen	RBL-2H3 transfected cells expressing murine CD88 / C5aR.
Conjugation	PE
Alternate Names	CD88; C5R1; C5AR; CD antigen CD88; C5a anaphylatoxin chemotactic receptor 1; C5a anaphylatoxin chemotactic receptor; C5A; C5aR; C5a-R

### Application Instructions

Application table	Application	Dilution
	FACS	1:50 - 1:100
Application Note	<p>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.</p>	

### Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS, 0.09% Sodium azide, 1% BSA and 5% Sucrose.
Preservative	0.09% Sodium azide
Stabilizer	1% BSA and 5% Sucrose
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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Gene Symbol	C5ar1
Gene Full Name	complement component 5a receptor 1
Function	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]
Calculated Mw	39 kDa
PTM	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 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.