Datasheet for ABIN1981892

anti-C5AR1 antibody (AA 15-27) (PE)

1 Image | 4 Publications

Go to Product page

Overview

Quantity:	100 tests
Target:	C5AR1
Binding Specificity:	AA 15-27
Reactivity:	Human, Cow, Rabbit, Ferret
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This C5AR1 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Recombinant N-terminal peptide (Asp15-Asp27) of human C5aR
Clone:	S5-1
Isotype:	IgG2a kappa
Specificity:	The mouse monoclonal antibody S5/1 recognizes an extracellular epitope of CD88 protein, a 43 kDa receptor of C5a component of the complement cascade.
Cross-Reactivity (Details):	Human, Bovine, Ferret, Rabbit
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	C5AR1
Alternative Name:	CD88 / C5aR (C5AR1 Products)
Background:	Complement C5a receptor 1,CD88 / C5aR is a G protein-coupled seven membrane-spanning protein serving as a receptor for C5a component of the complement cascade, and is expressed mainly by monocytes, macrophages, neutrophils, eosinophils, and mast cells, but also e.g. by hepatocytes, glial cells, vascular endothelial cells, or cardiomyocytes. The binding of C5a to CD88 is associated with inflammatory response, including superoxide anion production, chemotaxis, and increased production of acute phase proteins. Expression of CD88 on synovial mast cells and their C5a-mediated degranulation plays a role in pathogenesis of rheumatoid arthritis.,C5A, C5R1, C5AR1
Gene ID:	728
UniProt:	P21730
Pathways:	Complement System

Application Details

Application Notes:	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.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

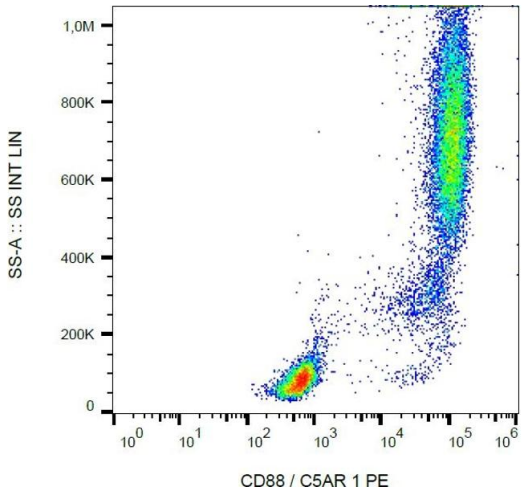
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze. Avoid prolonged exposure to light. Do not use after expiration date stamped on vial label. Short-term exposure to room temperature should not affect the quality of the reagent. However,

Handling

	if reagent is stored under any conditions other than those specified, the conditions must be verified by the user.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in:	Camous, Roumenina, Bigot, Brachemi, Frémeaux-Bacchi, Lesavre, Halbwachs-Mecarelli: " Complement alternative pathway acts as a positive feedback amplification of neutrophil activation." in: **Blood**, Vol. 117, Issue 4, pp. 1340-9, (2011) (PubMed). Conway Morris, Kefala, Wilkinson, Dhaliwal, Farrell, Walsh, Mackenzie, Reid, Davidson, Haslett, Rossi, Sallenave, Simpson: "C5a mediates peripheral blood neutrophil dysfunction in critically ill patients." in: **American journal of respiratory and critical care medicine**, Vol. 180, Issue 1, pp. 19-28, (2009) (PubMed). Cain, Monk: "The orphan receptor C5L2 has high affinity binding sites for complement fragments C5a and C5a des-Arg(74)." in: **The Journal of biological chemistry**, Vol. 277, Issue 9, pp. 7165-9, (2002) (PubMed). Kiener, Baghestanian, Dominkus, Walchshofer, Ghannadan, Willheim, Sillaber, Graninger, Smolen, Valent: "Expression of the C5a receptor (CD88) on synovial mast cells in patients with rheumatoid arthritis." in: **Arthritis and rheumatism**, Vol. 41, Issue 2, pp. 233-45, (1998) (PubMed).



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood using anti-CD88 (clone S5/1) PE.

