

Technical Data Sheet

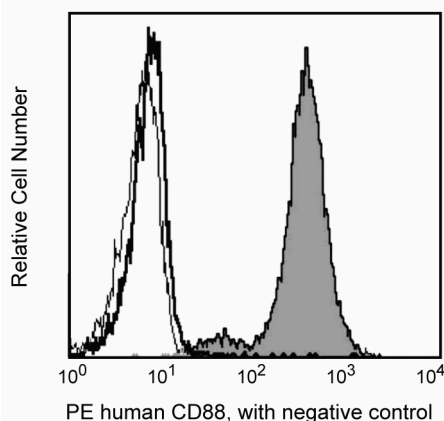
PE Rabbit Anti-Human CD88

Product Information

Material Number:	552993
Alternate Name:	C5a Receptor
Size:	100 tests
Vol. per Test:	20 µl
Clone:	C85-4124
Immunogen:	Human C5aR sequence aa. 9-29
Isotype:	Rabbit IgG
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The rabbit monoclonal antibody C85-4124 reacts with human CD88, which is also known as C5a anaphylatoxin Receptor (C5a receptor, C5aR). CD88 (C5aR) is a seven-transmembrane-spanning G-protein coupled receptor. Its ligand, C5a/C5a-desArg, is the 10 kDa cleavage product of serum protein C5, generated upon Complement System activation. Ligand binding activates the receptor, and mediates lysosomal enzyme release, cytokine and superoxide production, and chemotaxis. Ligand-occupied receptors get internalized (downregulated). Main cellular expression of CD88 (C5aR) includes granulocytes, monocytes, dendritic cells, astrocytes, and microglia. The extracellular, N-terminal 9-29 amino acids of the human C5aR sequence was used as an immunogen to generate C85-4124 monoclonal antibody from rabbits.



Flow cytometric analysis and staining profile of antibody C85-4124 on human peripheral blood cell.
 Lysed whole blood cells were stained with PE Rabbit Anti-Human CD88 (Cat. No. 552993; Filled histogram), overlaid with autofluorescence control (Open histogram). To demonstrate specificity of staining, C85-4124-PE staining was blocked by pre-incubation of the cells with an 100 fold excess of Purified Rabbit Anti-Human CD88 antibody (Cat. No. 559159), that resulted in 99% blocking of the label (bold line histogram). The histograms were derived from the gated events based on light scattering characteristics of viable granulocytes.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Flow cytometry	Routinely Tested
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Recommended Assay Procedure:

Immunofluorescent staining and Flow Cytometry: The C85-4124-PE antibody is useful for flow cytometric analysis of CD88/C5aR expressed on cell surfaces.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554656	Stain Buffer (FBS)	500 ml	(none)
555899	Lysing Buffer	100 ml	(none)
559159	Purified Rabbit Anti-Human CD88	100 tests	C85-4124

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Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.
3. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
4. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
5. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Gerard C, Gerard NP. C5a anaphylatoxin and its seven transmembrane-segment receptor. *Annu Rev Immunol*. 1994; 12:775-808. (Clone-specific: Flow cytometry)
Gerard NP, Gerard C. The chemotactic receptor for human C5a anaphylatoxin. *Nature*. 1991; 349(6310):614-617. (Immunogen: Flow cytometry)
Höpken UE, Lu B, Gerard NP, Gerard C. The C5a chemoattractant receptor mediates mucosal defence to infection. *Nature*. 1996; 383(6595):86-89. (Biology)
Morgan EL, Ember JA, Sanderson SD, et al. Anti-C5a receptor antibodies. Characterization of neutralizing antibodies specific for a peptide, C5aR-(9-29), derived from the predicted amino-terminal sequence of the human C5a receptor. *J Immunol*. 1993; 151(1):377-388. (Immunogen: Flow cytometry)
O'Barr SA, Caguioa J, Gruol D, et al. Neuronal expression of a functional receptor for the C5a complement activation fragment. *J Immunol*. 2001; 166(6):4154-4162. (Biology)

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