

Technical Data Sheet

Purified Mouse Anti-Human CD88

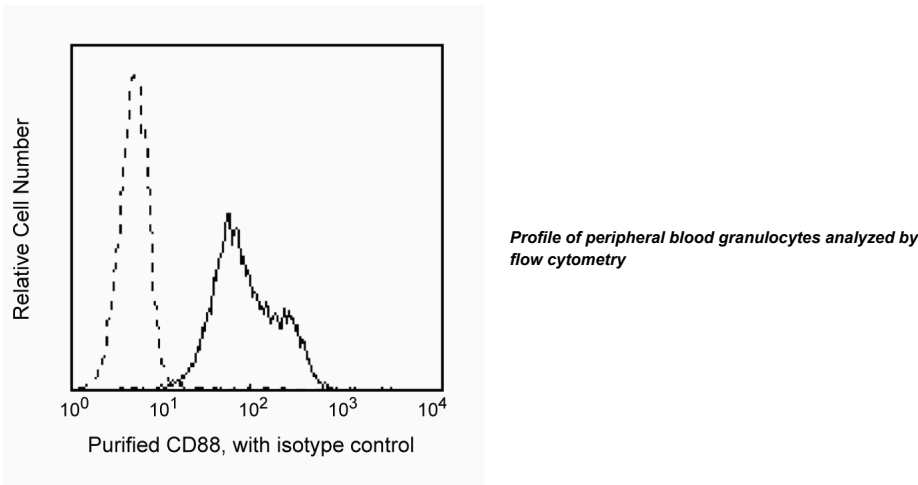
Product Information

Material Number:	550493
Alternate Name:	C5a Receptor
Size:	0.1 mg
Concentration:	0.5 mg/ml
Clone:	D53-1473
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

Reacts with a 40 kDa polypeptide expressed on granulocytes, monocytes and macrophages. CD88 is a G type protein-coupled receptor with seven transmembrane domains. It binds to C5a, the α chain of the complement component C5. C5a is cleaved from C5 during complement activation. The binding of C5a to C5a receptor (C5aR, CD88) on granulocytes leads to various effects including shedding of selectins, upregulation of adhesion molecules, chemotaxis, granule exocytosis and activation of NADPH oxidase. Clone D53-1473 was developed using a known C5aR N-terminal extracellular hydrophilic region (a.a. 1-31) peptide as immunogen. This antibody is useful in inflammation and chemotaxis research.

This antibody is routinely tested by flow cytometric analysis. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.



Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4° C.

Application Notes

Application

Flow cytometry	Routinely Tested
Immunofluorescence	Tested During Development

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## Suggested Companion Products

Catalog Number	Name	Size	Clone
555746	Purified Mouse IgG1, $\kappa$ Isotype Control	0.1 mg	MOPC-21
555988	FITC Goat Anti-Mouse IgG/IgM	0.5 mg	Polyclonal

## Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to [www.bdbiosciences.com/pharmingen/protocols](http://www.bdbiosciences.com/pharmingen/protocols) for technical protocols.
3. 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.

## References

Barclay NA, Brown MH, Birkeland ML, et al, ed. *The Leukocyte Antigen FactsBook*. San Diego, CA: Academic Press; 1997.(Biology)

Morelli A, Larregina A, Chuluyán I, Kolkowski E, Fainboim L. Expression and modulation of C5a receptor (CD88) on skin dendritic cells. Chemotactic effect of C5a on skin migratory dendritic cells. *Immunology*. 1996; 89(1):126-134.(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.(Biology)