

Product Data Sheet

PE anti-mouse CD88 (C5aR)

Catalog # / Size: 135805 / 50 µg
135806 / 200 µg

Clone: 20/70

Isotype: Rat IgG2b, κ

Immunogen: mC5aR transfected cells

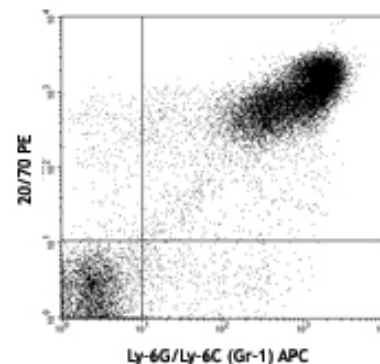
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



C57BL/6 bone marrow cells stained with 20/70 PE and Ly-6G/Ly-6C (Gr-1) APC

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤ 0.25 µg per 10⁶ cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications for the relevant formats include: blocking of C5a binding.

Application References:

- Godau J, *et al.* 2004. *J. Immunol.* 173:3437.
- Shushakova N, *et al.* 2002. *J. Clin. Invest.* 110:1823.
- Bosmann M, *et al.* 2012. *J Immunol.* 188:5086. PubMed.

Description: CD88 is a single chain protein with seven membrane-spanning regions and a molecular weight of 43 kD. CD88 is expressed by neutrophils, eosinophils, and monocytes. There have been reports of CD88 expression in non-immune cells such as glial cells, cerebellar granule cells, cardiomyocytes, and vascular endothelial cells. CD88 is coupled to heterotrimeric G proteins such as G_i, and after C5a binding, the signal transduced by CD88 results in the activation of PLCβ, PI-3 kinase, and PLA₂, among other molecules, resulting in chemotaxis, granule enzyme release, and superoxide anion production.

Antigen References:

- Schraufstatter IU, *et al.* 2009. *J. Immunol.* 182:3827.
- Ippel JH, *et al.* 2009. *J. Biol. Chem.* 284:12363.
- Monk PN, *et al.* 2007. *Br. J. Pharmacol.* 152:429.
- Griffin RS, *et al.* 2007. *J. Neurosci.* 27:8699.
- Lee H, *et al.* 2006. *Nat. Biotechnol.* 24:1279.
- Buck E and Wells JA, *et al.* 2005. *P. Natl. Acad. Sci. USA* 102:2719.

Related Products:	Product	Clone	Application
	PE Rat IgG2b, κ Isotype Ctrl	RTK4530	FC, ICFC
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	TruStain fcX™ (anti-mouse CD16/32)	93	FC



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