

# Product Data Sheet

## PE anti-human CD88 (C5aR)

**Catalog # / Size:** 2321515 / 25 tests  
2321520 / 100 tests

**Clone:** S5/1

**Isotype:** Mouse IgG2a,  $\kappa$

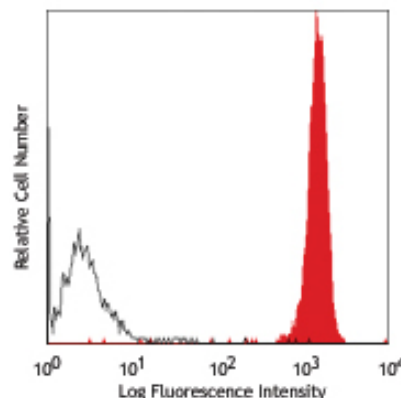
**Immunogen:** Recombinant peptide huC5aR N-terminal -NT (Asp15-Asp27)

**Reactivity:** Human

**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 and 0.2% (w/v) BSA (origin USA).

**Storage:** The antibody solution should be stored undiluted between 2°C and 8°C, and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood granulocytes stained with S5/1 PE

## Applications:

**Applications:** FC - Quality tested

**Application Notes:** Clone S5/1 blocks the binding of C5a to CD88.

**Recommended Usage:** Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Test size products are transitioning from 20  $\mu$ l to 5  $\mu$ l per test. Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100  $\mu$ l staining volume or per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application References:**

1. Kiener HP, *et al.* 1998. *Arthritis Rheum.* 41:233.
2. Elsner J, *et al.* 1994. *Blood* 83:3324.
3. Oppermann M, *et al.* 1993. *J. Immunol.* 151:3785.
4. Li K, *et al.* 2012. *Immunobiology.* 217:65. PubMed
5. Kim SH, *et al.* 2013. *Int Immunol.* 25:623. PubMed

**Description:** CD88 is a single chain protein with seven membrane-spanning regions and has a MW of 43 kD. CD88 is expressed by monocytes, neutrophils and eosinophils. Also, 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 Gi, and after C5a binding, the signal transduced by CD88 results in the activation of PLC $\beta$ , PI-3 kinase, and PLA2, among other molecules, resulting in chemotaxis, granule enzyme release and superoxide anion production.

**Antigen References:**

1. Schraufstatter IU, *et al.* 2009. *J. Immunol.* 182:3827.
2. Ippel JH, *et al.* 2009. *J. Biol Chem.* 284:12363.
3. Griffin RS, *et al.* 2007. *J. Neurosci.* 27:8699.
4. Lee H, *et al.* 2006. *Nat. Biotechnol.* 24:1279.
5. Buck E and Wells JA. *et al.* 2005. *P. Natl. Acad. Sci. USA* 102:2719.

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