

## LEAF™ Purified anti-mouse CD88 (C5aR)

**Catalog # / Size:** 135804 / 500 µg

**Clone:** 20/70

**Isotype:** Rat IgG2b, κ

**Immunogen:** mC5aR transfected cells

**Reactivity:** Mouse

**Preparation:** The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

**Formulation:** 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

**Concentration:** 1.0 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

## Applications:

**Applications:** FC - *Quality tested*  
Block - *Reported in the literature*

**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 10<sup>6</sup> cells in 100 µl volume or 100 µl of whole blood. 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:** 1. Godau J, *et al.* 2004. *J. Immunol.* 173:3437.  
2. Shushakova N, *et al.* 2002. *J. Clin. Invest.* 110:1823.

**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<sub>i</sub>, and after C5a binding, the signal transduced by CD88 results in the activation of PLCβ, PI-3 kinase, and PLA<sub>2</sub>, 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. Monk PN, *et al.* 2007. *Br. J. Pharmacol.* 152:429.  
4. Griffin RS, *et al.* 2007. *J. Neurosci.* 27:8699.  
5. Lee H, *et al.* 2006. *Nat. Biotechnol.* 24:1279.  
6. Buck E and Wells JA, *et al.* 2005. *P. Natl. Acad. Sci. USA* 102:2719.

### Related Products:

**Product**  
LEAF™ Purified Rat IgG2b, κ Isotype Ctrl

**Clone**  
RTK4530

**Application**  
FC, ICFC, WB, IP, ICC, IF,  
IHC, FA  
FC, ICC, ICFC  
FC, ICFC

Cell Staining Buffer  
RBC Lysis Buffer (10X)



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