

11-736-C100

## Monoclonal Antibody to CD88 / C5aR Purified Antibody (0.1 mg)

Clone: S5/1

**Isotype:** Mouse IgG2a

Specificity: The mouse monoclonal antibody S5/1 recognizes the CD88 protein, a 43 kDa

receptor of C5a component of the complement cascade.

Regulatory Status: RUO

Immunogen: Recombinant N-terminal peptide (Asp15-Asp27) of human C5aR

Species Reactivity: Human, Bovine, Rabbit, Ferret

**Application:** Flow Cytometry

Immunoprecipitation Western Blotting

Immunohistochemistry (paraffin sections)

**Purity:** > 95% (by SDS-PAGE)

**Purification:** Purified by protein-A affinity chromatography

Concentration: 1 mg/ml

Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4

Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial

label.

Expiration: See vial label

Lot Number: See vial label

Background: CD88 / C5aR is a G protein-coupled seven membrane-spanning protein serving as

a receptor for C5a component of the complement cascade, and is expressed mainly by monocytes, macrophages, neutrophils, eosinophils, and mast cells, but also e.g. by hepatocytes, glial cells, vascular endothelial cells, or cardiomyocytes. The binding of C5a to CD88 is associated with inflammatory response, including superoxide anion production, chemotaxis, and increased production of acute phase proteins. Expression of CD88 on synovial mast cells and their C5a-mediated

degranulation plays a role in pathogenesis of rheumatoid arthritis.

References: \*Kiener HP, Baghestanian M, Dominkus M, Walchshofer S, Ghannadan M,

Willheim M, Sillaber C, Graninger WB, Smolen JS, Valent P: Expression of the C5a receptor (CD88) on synovial mast cells in patients with rheumatoid arthritis.

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\*Cain SA, Monk PN: The orphan receptor C5L2 has high affinity binding sites for complement fragments C5a and C5a des-Arg(74). J Biol Chem. 2002 Mar

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