



CD88 (20/70): sc-53786

BACKGROUND

CD88, also known as C5a receptor (C5aR), is a G protein-coupled integral membrane protein. CD88, which is expressed on neutrophils, monocytes, macrophages, hepatocytes and mast cells, as well as on various epithelial and endothelial cells, serves as a receptor for the inflammatory peptide C5a. Research studies suggest a role for CD88 in the inflammatory response. The binding of C5a to CD88 has been shown to elicit increased production of acute phase proteins in liver. In brain, an increased production of CD88 has been shown to be associated with inflammation. Research also indicates a role for C5a/C5aR in the pathogenesis of rheumatoid arthritis, as well as a heightened responsiveness of human bronchial epithelial cells (HBECS) to C5a upon exposure of these cells to cigarette smoke and other environmental irritants.

REFERENCES

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4. Fureder, W., et al. 1995. Differential expression of complement receptors on human basophils and mast cells. Evidence for mast cell heterogeneity and CD88/C5aR expression on skin mast cells. *J. Immunol.* 155: 3152-3160.
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6. Gasque, P., et al. 1997. Expression of the receptor for complement C5a (CD88) is upregulated on reactive astrocytes, microglia and endothelial cells in the inflamed human central nervous system. *Am. J. Pathol.* 150: 31-41.
7. Kiener, H.P., et al. 1998. Expression of the C5a receptor (CD88) on synovial mast cells in patients with rheumatoid arthritis. *Arthritis Rheum.* 41: 233-245.
8. Floreani, A.A., et al. 1998. Expression of receptors for C5a anaphylatoxin (CD88) on human bronchial epithelial cells: enhancement of C5a-mediated release of IL-8 upon exposure to cigarette smoke. *J. Immunol.* 160: 5073-5081.
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CHROMOSOMAL LOCATION

Genetic locus: C5a1 (mouse) mapping to 7 A2.

SOURCE

CD88 (20/70) is a rat monoclonal antibody raised against CD88 of mouse origin.

PRODUCT

Each vial contains 200 µg IgG_{2b} in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD88 (20/70) is available conjugated to either phycoerythrin (sc-53786 PE) or fluorescein (sc-53786 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

APPLICATIONS

CD88 (20/70) is recommended for detection of CD88 of mouse origin by flow cytometry (1 µg per 1 x 10⁶ cells).

Suitable for use as control antibody for CD88 siRNA (m): sc-42814, CD88 shRNA Plasmid (m): sc-42814-SH and CD88 shRNA (m) Lentiviral Particles: sc-42814-V.

Molecular Weight of CD88: 49 kDa.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.