**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**


**CHROMOSOMAL LOCATION**

Genetic locus: C5AR1 (human) mapping to 19q13.32; C5ar1 (mouse) mapping to 7 A2.

**SOURCE**

CD88 (3H1740) is a mouse monoclonal antibody raised against a synthetic peptide corresponding to N-terminal amino acids 1-31 of CD88 of human origin.

**RESEARCH USE**

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

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD88 (3H1740) is available conjugated to either phycoerythrin (sc-70813 PE) or fluorescein (sc-70813 FITC), 200 µg/ml, for IF, IHC(P) and FCM.

**APPLICATIONS**

CD88 (3H1740) is recommended for detection of CD88 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).

CD88 (3H1740) is also recommended for detection of CD88 in additional species, including bovine and rabbit.

Suitable for use as control antibody for CD88 siRNA (h): sc-35031, CD88 siRNA (m): sc-42814, CD88 shRNA Plasmid (h): sc-35031-SH, CD88 shRNA Plasmid (m): sc-42814-SH, CD88 shRNA (h) Lentiviral Particles: sc-35031-V and CD88 shRNA (m) Lentiviral Particles: sc-42814-V.

Molecular Weight of CD88: 49 kDa.

Positive Controls: CD88 (h3): 293T Lysate: sc-158362, U-937 cell lysate: sc-2239 or HeLa whole cell lysate: sc-2200.

**STORAGE**

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

**DATA**

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