

**MONOCLONAL ANTIBODY TO
HUMAN C5a RECEPTOR (CD88)
clone S5/1**



Catalog nr	HM2094 (lot number and expiry date are indicated on the label)
Description	The monoclonal antibody S5/1 reacts with the human Receptor for C5a (CD88). The human anaphylatoxin C5a is a 74-residu glycopolypeptide which is generated by proteolytic cleavage of the complement factor C5 in the course of complement activation. A variety of biological effects evoked by C5a could be demonstrated, rendering this molecule an important mediator of inflammation, with granulocytes and macrophages as the main target cells. All cellular responses to C5a are specifically mediated by interactions with the membrane bound C5a receptor, a seven transmembrane GTP-binding-protein-coupled receptor that belongs to the rhodopsin supergene family. The 45 kDa C5a receptor is expressed by neutrophils, monocytes/macrophages, dendritic cells, astrocytes and microglia. Clone S5/1 was raised against a synthetic peptide comprising the N-terminal domain of the C5aR (Met1-Asn31). The antibody has been shown to inhibit the binding of C5a to its receptor.
Species	Mouse IgG _{2a}
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.1% bovine serum albumin.
Application	The monoclonal antibody S5/1 can be used for inhibition studies, flow cytometry and immunohistology on paraffin sections. Furthermore the antibody S5/1 is useful for Western blotting. The antibody is not useful for immunohistology on frozen sections and for immuno precipitation.
Use	For immunohistology, flow cytometry and Western blotting dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:10. For inhibition of binding of C5a to its receptor dilutions have to be made according to the amounts of C5a to be inhibited.
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result with the use of or derivation of this product.
References	<ol style="list-style-type: none">1. Opperman, M et al; Probing the human receptor for C5a anaphylatoxin with side-directed antibodies. <i>J Immunol</i> 1993, <i>151</i>: 37852. Opperman, M et al; Antibodies from the myeloid panel that react with the C5a receptor and antagonize C5a biological activity. Schlossman, S.F. (ed.) <i>Leucocyte typing V.O.U.P.</i>: 955-95
Also available	HM2076 Monoclonal antibody against Human C5/C5a (N-terminus), clone 561 HM2077 Monoclonal antibody against Human C5/C5a, clone 557 HM2078 Monoclonal antibody against Human C5a/C5a des-Arg, clone 2942 HM2080 Monoclonal antibody against Human C5/C5b, clone 568 HM2095 Monoclonal antibody against Human C5aR, clone W17/1