MONOCLONAL ANTIBODY TO HUMAN C3a RECEPTOR (C3aR)
clone 17 (hC3aRZ8)

Catalog nr	HM2195 (lot number and expiry date are indicated on the label)
Description	The monoclonal antibody 17 reacts with the human receptor for C3a. The monoclonal antibody 17 is in the literature also referred to as clone hC3aRZ8. In the course of complement activation the C3a receptor functions as the cell surface receptor for the anaphylatoxin C3a, the C-terminal 77 amino acid cleavage product of the alpha chain of C3, but not for C3a-desArg. All cellular responses to C3a are specifically mediated by interactions with the membrane bound C3a receptor, a seven transmembrane GTP-binding-protein-coupled receptor that belongs to the rhodopsin supergene family. The 54 kDa C3a receptor is widely distributed in, myeloid cells, peripheral tissues and the central nervous system. Expression of C3aR has been demonstrated on neutrophils, monocytes, eosinophils, astrocytes, neurons and glial cells and is increased in inflammatory conditions. No C3aR expression was detectable on lymphocytes and on tonsillar B cells even after stimulation.
Species	Mouse IgG_{2b}
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.02% sodium azide and 0.1% bovine serum albumin.
Application	The monoclonal antibody 17 can be used for flow cytometry and immunohistochemistry on frozen sections. The antibody 17 (hC3aRZ8) does not block binding of ligand to C3aR.
Use	For flow cytometry and immunohistochemistry 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 1:50.
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	1. Luhmann, A et al; Immunohistochemical analysis of human and rat C3a receptor expression by the use of monoclonal antibodies. Mol Immunol 2001, *38*: 108

Also available

HM2168	Monoclonal antibody against Human C3, activated, clone bH6
HM2075	Monoclonal antibody against Human C3/C3a, C-terminus, clone 2898
HM2073	Monoclonal antibody against Human C3/C3a, clone 474
HP9036	Polyclonal antibody against Human C5L2
HC2103	Human C5L2 peptide