

**MONOCLONAL ANTIBODY TO
RAT C3a RECEPTOR (C3aR)
clone 74 (rC3aRZ1)**



Catalog nr	HM3028 (lot number and expiry date are indicated on the label)
Description	<p>The monoclonal antibody 74 reacts with the rat receptor for C3a. The monoclonal antibody 74 is in the literature also referred to as clone rC3aRZ1.</p> <p>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.</p>
Species	Mouse IgG ₁
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 74 (also referred as clone rC3aRZ1) can be used for flow cytometry and immunohistochemistry on frozen sections. The antibody 74 (rC3aRZ1) 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	HM3017 Monoclonal antibody against Rat C5aR, CD88, clone R63 HP8018 Polyclonal antibody against Rat C5L2 HC3103 Rat C5L2 peptide