

Product datasheet for **AM32139PU-N**

CD21 (CR2) Mouse Monoclonal Antibody [Clone ID: 4C5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	4C5
Applications:	IF, IHC
Recommended Dilution:	Immunofluorescence. Flow Cytometry: 1/50. Immunohistochemistry on (Aceton-Fixed) Frozen Sections and Cytospin preparations. Use ~1/20-1/50 dilution (depends on technique).
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	A BALB/c mouse was immunized subcutaneously in its footpads with fragments of a Human tonsil. After fusing the lymphocytes from the popliteal lymph nodes of this mouse with murine SP2/0 myeloma cells
Specificity:	This Monoclonal antibody 4C5 with the CD21 (140kD) molecule, expressed (moderate) on mature B-cells and (at high density) on follicular dendritic cells (FDC). The antibody producing cells were selected on their immunohistochemical staining pattern. Later on the antibody was biochemically analysed and revealed to recognize the CD21 molecule (140kD) by Immunoprecipitation procedures. 4C5 shows moderate labeling of mature B-cells and strong labeling of FDC's on acetone-fixed cryostat sections, air-dried and acetone-fixed cells and Immunofluorescence and Immunoperoxidase tests.
Formulation:	State: Ig Fraction State: Liquid Ig fraction Preservative: 0.09% Sodium Azide
Concentration:	lot specific
Conjugation:	Unconjugated



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Storage:	Store the antibody undiluted at 2-8°C for Three months or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	145 kDa
Gene Name:	complement component 3d receptor 2
Database Link:	Entrez Gene 1380 Human P20023
Background:	CD21 is a type I integral membrane glycoprotein that serves as a receptor for the C3d complement fragment and for the Epstein-Barr virus. It plays a role in B cell activation and proliferation and undergoes phosphorylation after B cell activation with phorbol esters. CD21 is expressed on mature B cells, follicular Dendritic cells, pharyngeal and cervical epithelial cells and a subset of thymocytes. The adaptive immune response is tightly regulated to limit responding cells in an antigen-specific manner. On B cells, co-receptors CD21/CD19 modulate the strength of B cell Ag receptor (BCR) signals, thereby influencing cell fate. Complement receptor (CR) type 2 (CR2/ CD21) is normally expressed during the immature and mature stages of B cell development. In association with CD19, CR21 plays an important role in enhancing mature B cell responses to foreign antigen.
Synonyms:	Complement receptor type 2, CR2, C3DR, C3d receptor, EBV Receptor, Dendritic Cell Marker