

CD21 Antibody | anti-CD21 antibody

Anti-Hu CD21 APC-Cy7

CATALOG # AAA129280	REACTIVITY Pig, Human, Dog, Cow	APPLICATIONS Flow Cytometry, Functional Assay
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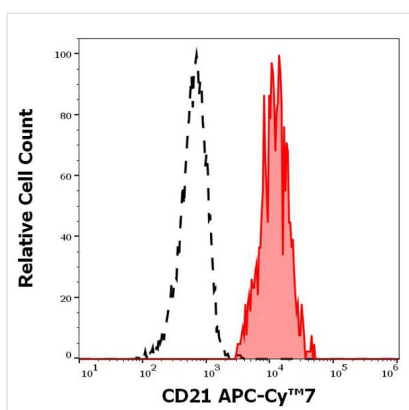
PRODUCT SYNONYMS

CD21; Anti-Hu CD21 APC-Cy7; complement C3d receptor 2; CR2; C3DR2; CVID7; SLEB9; anti-CD21 antibody

PRODUCT SPECIFICATIONS

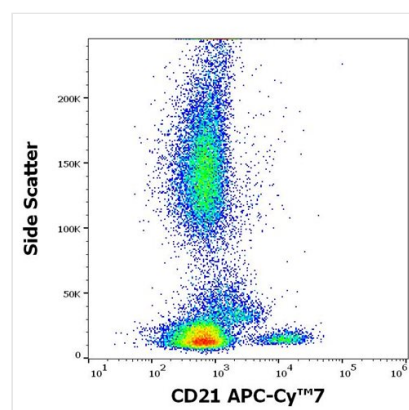
Reactivity	Pig, Human, Dog, Cow
Isotype	Mouse IgG1
Clone Number	LT21
Specificity	The antibody LT21 reacts with an extracellular epitope of CD21 (CR2), a 145 kDa transmembrane glycoprotein (complement C3d receptor - C3dR) expressed on B lymphocytes, follicular dendritic cells, some epithelial cells and a subsets of T lymphocytes. It is not expressed on immature B cells.
Form/Format	APC-Cy7 Purified antibody is conjugated with activated tandem dye of allophycocyanin-cyanine 7 (APC-Cy7) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buf
Applicable Applications for anti-CD21 antibody	FCM/FACS (Flow Cytometry)
Immunogen	IM9 human B-lymphoblastoid cell line
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Separation of human CD21 positive lymphocytes (red-filled) from neutrophil granulocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD21 (LT21) APC-CyTM7 antibody (4 ?l reagent / 100 ?l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD21 (LT21) APC-CyTM7 antibody (4 ?l reagent / 100 ?l of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD21 antibody	CD21 (complement receptor 2, CR2) binds C3 complement fragments, especially its breakdown fragments, which remain covalently attached to complement activating surfaces or antigen. CD21 has important roles in uptake and retention of immunocomplexes, survival of memory B cells and in development and maintenance of the humoral response to T-dependent antigens. CD21 also serves as a key receptor for Epstein-Barr virus binding and is involved in targeting prions to follicular dendritic cells and expediting neuroinvasion following peripheral exposure to prions. A soluble form of the CD21 (sCD21) is shed from the lymphocyte surface and retains its ability to bind respective ligands.
References	*Leukocyte Typing VI., Kishimoto T. et al. (Eds.), Garland Publishing Inc. (1997)., URL:,*Faldyna M, Samankova P, Leva L, Cerny J, Oujezdska J, Rehakova Z, Sinkora J: Cross-reactive anti-human monoclonal antibodies as a tool for B-cell identification in dogs and pigs. Vet Immunol Immunopathol. 2007 Sep 15;119(1-2):56-62., URL: https://www.ncbi.nlm.nih.gov/pubmed/17673300?ordin,*Filatov AV, Krotov GI, Zgoda VG, Volkov Y: Fluorescent immunoprecipitation analysis of cell surface proteins: a methodology compatible with mass-spectrometry. J Immunol Methods. 2007 Jan 30;319(1-2):21-33., URL: http://www.ncbi.nlm.nih.gov/pubmed/17098248, *Singh A, Blank M, Shoenfeld Y, Ilges H: Antiphospholipid syndrome patients display reduced titers of soluble CD21 in their sera irrespective of circulating anti-beta2-glycoprotein-I autoantibodies. Rheumatol Int. 2008 Jan 3, URL: https://www.ncbi.nlm.nih.gov/pubmed/18172655?ordin,*Zabel MD, Heikenwalder M, Prinz M, Arrighi I, Schwarz P, Kranich J, von Teichman A, Haas KM, Zeller N, Tedder TF, Weis JH, Aguzzi A: Stromal complement receptor CD21/35 facilitates lymphoid prion colonization and pathogenesis. J Immunol. 2007 Nov 1;179(9):6144-52., URL: https://www.ncbi.nlm.nih.gov/pubmed/17947689?ordin,*Kasprzak A, Spachacz R, Wachowiak J, Stefanska K, Zabel M: Epstein-Barr virus (EBV) infection in B-cell non-Hodgkin's lymphomas in children: virus latency and its correlation with CD21 and CD23 molecules. Folia Histochem Cytobiol. 2007;45(3):169-79., URL: https://www.ncbi.nlm.nih.gov/pubmed/17951165?ordin,*Twohig J, Kulik L, Haluszczak C, Reuter J, Rossbach A, Bull M, Holers VM, Marchbank KJ: Defective B cell ontogeny and immune response in human complement receptor 2 (CR2, CD21) transgenic mice is partially recovered in the absence of C3. Mol Immunol. 2007 Jul;44(13):3434-44., URL: https://www.ncbi.nlm.nih.gov/pubmed/17379312?ordin,*Rozenendaal R, Carroll MC: Complement receptors CD21 and CD35 in humoral immunity. Immunol Rev. 2007 Oct;219:157-66., URL: https://www.ncbi.nlm.nih.gov/pubmed/17850488?ordin,

NCBI AND UNIPROT INFORMATION

NCBI GI #	215273962
NCBI GeneID	1380
UniProt Accession #	P20023
NCBI Official Full Name	Complement receptor type 2
NCBI Official Synonym Full Names	complement C3d receptor 2
NCBI Official Symbol	CR2
NCBI Official Synonym Symbols	CR; C3DR; CD21; CVID7; SLEB9
NCBI Protein Information	complement receptor type 2
UniProt Protein Name	Complement receptor type 2
UniProt Gene Name	CR2
UniProt Synonym Gene Names	C3DR; Cr2; EBV receptor
UniProt Entry Name	CR2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/cow-dog-human-pig-antibody/cd21/129280>