

11-306-C025

## Monoclonal Antibody to CD21 Purified Antibody (0.025 mg)

<b>Clone:</b>	LT21
<b>Isotype:</b>	Mouse IgG1
<b>Specificity:</b>	The antibody LT21 reacts with 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. HLDA VI; WS Code B CD21.1
<b>Immunogen:</b>	IM9 human B-lymphoblastoid cell line
<b>Species Reactivity:</b>	Human, Porcine, Bovine, Canine (Dog)
<b>Application:</b>	Flow Cytometry Recommended dilution:2 µg/ml Immunohistochemistry (frozen sections)
<b>Purity:</b>	> 95% (by SDS-PAGE)
<b>Purification:</b>	Purified from ascites by precipitation methods and ion exchange chromatography.
<b>Concentration:</b>	1 mg/ml
<b>Storage Buffer:</b>	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
<b>Storage / Stability:</b>	Store at 2-8°C. Do not use after expiration date stamped on vial label. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.
<b>Expiration:</b>	See vial label
<b>Lot Number:</b>	See vial label
<b>Background:</b>	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.

**For laboratory research only, not for drug, diagnostic or other use.**

**Antibodies****References:**

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- \*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.
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- \*Singh A, Blank M, Shoenfeld Y, Illges 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
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- \*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.

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