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Datasheet for ABIN192225
anti-CD21 antibody (PE)

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Overview

Quantity:	100 tests
Target:	CD21 (CR2)
Reactivity:	Human, Pig, Cow, Dog
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD21 antibody is conjugated to PE
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	IM9 human B-lymphoblastoid cell line
Clone:	LT21
Isotype:	IgG1
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.
Cross-Reactivity (Details):	Human, Porcine, Bovine, Canine (Dog)
Purification:	Purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. Unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD21 (CR2)
Alternative Name:	CD21 (CR2 Products)
Background:	Complement C3d receptor 2,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.,CR2, C3DR2, CVID7, SLEB9
Gene ID:	1380
UniProt:	P20023
Pathways:	Complement System

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with R-Phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.

Handling

Avoid prolonged exposure to light.

Storage: 4 °C

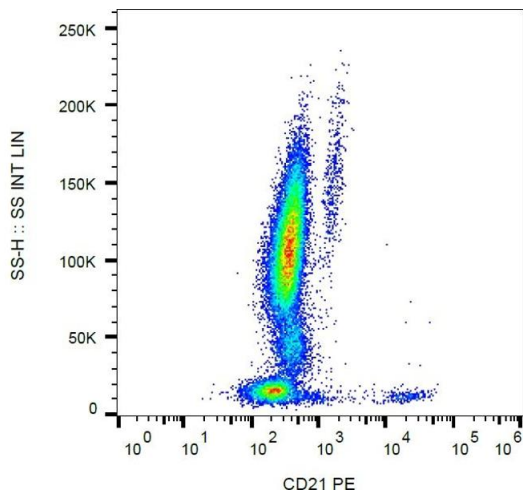
Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

Product cited in: Filatov, Krotov, Zgoda, Volkov: "Fluorescent immunoprecipitation analysis of cell surface proteins: a methodology compatible with mass-spectrometry." in: **Journal of immunological methods**, Vol. 319, Issue 1-2, pp. 21-33, (2007) ([PubMed](#)).

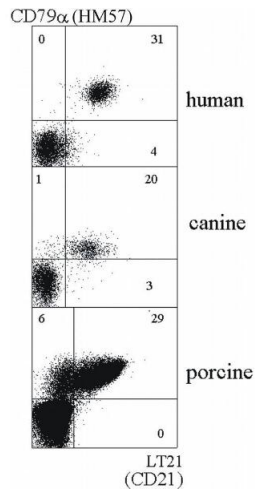
Faldyna, Samankova, Leva, Cerny, Oujezdska, Rehakova, Sinkora: "Cross-reactive anti-human monoclonal antibodies as a tool for B-cell identification in dogs and pigs." in: **Veterinary immunology and immunopathology**, Vol. 119, Issue 1-2, pp. 56-62, (2007) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood leukocytes with anti-CD21 (LT21) PE.



Flow Cytometry

Image 2. Double staining of human, canine and porcine B lymphocytes with anti-CD79a (HM57) and anti-CD21 (LT21) antibody.