

# Anti-Human CD21 (HI21a)



FITC	21F-100T	100 test
PE	21PE-100T	100 test
CF-Blue	21CFB-100T	100 test

**RUO**

## 1. PRODUCT DESCRIPTION

- **Clone:** HI21a;
- **Isotype:** IgG2a;
- **Tested application:** flow cytometry;
- **Immunogen:** The anti-CD21 monoclonal antibody derives from tonsil cells;
- **Species reactivity:** Human;
- **Storage instruction:** store in the dark at 2-8 °C;
- **Storage buffer:** aqueous buffered solution containing protein stabilizer and 0.09% sodium azide (NaN<sub>3</sub>);
- **Recommended usage:** Immunostep's CD21, clone HI21a is a monoclonal antibody intended for the identification and enumeration of mature B cells, follicular dendritic cells and some epithelial cells using flow cytometry. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using 1 test for 10<sup>6</sup> cells;
- **Presentation:** liquid;
- **Source:** Supernatant proceeding from an in vitro cell culture of a cell hybridoma;
- **Purification:** Affinity chromatography;
- **Other names:** Complement receptor type 2 (Cr2), Complement C3d receptor, Epstein-Barr virus receptor (EBV receptor), C3DR;
- **Gene ID:** I380;
- **Molecular weight:** 145 kDa.

## 2. ANTIGEN DETAILS

**Large description:** CD21 reacts with the C3d complement fragment and with Epstein Barr virus (EBV) receptors, found on mature B cells, follicular dendritic cells, and some epithelial cells. It is also weakly expressed on a subset of mature T cells and thymocytes.

This clone also cross-reacts with a major subset of, but not all, peripheral blood CD20 + lymphocytes of baboon, and both rhesus and cynomolgus macaque monkeys. A subset of CD3 + cells is also CD21 +. The monoclonal antibody is directed against the CD21-antigen, which is expressed on normal Ig-positive B-cells from peripheral blood and lymphoid tissues and on dendritic cells of germinal centres. Its expression is lost on activated B-cells. The distinct distribution among B-cell malignancies differs from other B-cell markers e.g. CD19 and CD20.<sup>(1-4)</sup>

## 3. WARRANTY

Warranted only to conform to the quantity and contents stated on the label or in the product labelling at the time of delivery to the customer. Immunostep disclaims hereby other warranties.

Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

## 4. ADDITIONAL INFORMATION

For research use only. Not for diagnostic use.

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## 5. REFERENCES

1. Escribano L, Orfao A, Diaz-Agustin B, Villarrubia J, Cervero C, Lopez A, et al. Indolent systemic mast cell disease in adults: immunophenotypic characterization of bone marrow mast cells and its diagnostic implications. *Blood*1998 Apr 15;91(8):2731-6.
2. Escribano L, Orfao A, Villarrubia J, Diaz-Agustin B, Cervero C, Rios A, et al. Immunophenotypic characterization of human bone marrow mast cells. A flow cytometric study of normal and pathological bone marrow samples. *Anal Cell Pathol*1998;16(3):151-9.
3. Reimann KA, Waite BC, Lee-Parritz DE, Lin W, Uchanska-Ziegler B, O'Connell MJ, et al. Use of human leukocyte-specific monoclonal antibodies for clinically immunophenotyping lymphocytes of rhesus monkeys. *Cytometry*1994 Sep 1;17(1):102-8.
4. Sopper S, Stahl-Hennig C, Demuth M, Johnston IC, Dorries R, ter Meulen V. Lymphocyte subsets and expression of differentiation markers in blood and lymphoid organs of rhesus monkeys. *Cytometry*1997 Dec 1;29(4):351-62.

## 6. EXPLANATION OF SYMBOLS

	Fluorochrome
	Product reference
	Content for <n> analysis
	Regulatory Status
	Research Use Only
	Manufacturer

## 7. MANUFACTURED BY:

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