# Anti-Human KAPPA/LAMBDA/CD19 (Fab`2 Polyclonal/HIB19)



REF





FITC/PE/Per-Cyanine5

KF3LPF219PC4-50T

50 test

### PRODUCT DESCRIPTION

Clone: Polyclonal (Kappa/Lambda): HIB19 (CD19)

Isotype: Rabbit F(ab')2 IgG (Kappa/Lambda); Mouse IgGI (CDI9)

Tested application: flow cytometry

Immunogen: The multicolour reagent Kappa/Lambda polyclonal antibody derives from rabbit.

The anti-CD19 monoclonal antibody derives from human tonsil.

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

Recommended usage: Immunostep's kappa/lambda/CDI9, is intended for simultaneous detection and enumeration of kappa light chains and lambda light chains. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using I test

Presentation: liquid

Source: F(ab')2 Polyclonal Rabbit Anti-Human Kappa and Lambda Light Chains. Supernatant proceeding from an in vitro cell culture of a cell hybridoma CD19.

Purification: Affinity chromatography.

#### 2. ANTIGEN DETAILS

Large description: The two conjugated antibodies have been produced from F(ab')2 fragments of affinity-isolated polyclonal rabbit antibodies.

The evaluation of cell surface Kappa/Lambda expression can identify clonally restricted B lymphocyte populations and thus can aide in the diagnosis of hematologic malignancy. Several B cell disorders are associated with decreased levels of Kappa/Lambda at the cell surface.

Please, refer to www.immunostep.com technical support for more information.

## 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.

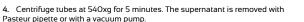
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Immunostep's sole liability is limited to either the replacement of the products or refund of the purchase price.

#### PROTOCOL

## Direct Immunofluorescence Cell Surface Staining Protocol

- 1. Transfer 100 ul (106 cells/test) of the sample to a 12 x 75 mm polystyrene
- 2. Add the suggested volume indicated on the antibody vial to the 12x75 mm cvtometer tube.
- 3. Mix well and incubate in the dark at room temperature at 4 °C for 30 minutes or at room temperature (20-25 °C) for 15 minutes.
- 4. After the incubation period, add 1,5 ml of an erythrocyte-lysing solution and mix. Incubate at room temperature in the darkness (the blood should be well mixed with the lysing solution).



- 5. Resuspend and wash with 3-5 mL of PBS at 540xg for 5 min.
- 6. After removing the supernatant and resuspending the cell pellet, add 300  $\mu$ L of PBS and adquire on the flow cytometer are recorded.
- 7. Analyse on a flow cytometer or store at 2-8 °C in the dark until analysis. Samples can be run up to 24 hours after lysis.

## ■ Indirect Immunofluorescence Cell Surface Staining Protocol

- 1. Transfer 100 ul (106 cells/test) of the sample to a 12 x 75 mm polystyrene test tube
- 2. Add purified reagent according to manufacturer's recommendation and mix gently with a vortex mixer.
- 3. Incubate in the dark at room temperature at 4 °C for 30 minutes or at room temperature (20-25 °C) for 15 minutes.
- 4. Add 2 mL 0.01 mol/L PBS (It betters that it containing 2% bovine serum albumin) and resuspend the cells by using a vortex mixer. Centrifuge at 540xg for 5 min in order to remove the McAb not bound to its antigen
- 5. Add a secondary conjugated reagent with some fluorochrome and mix. Incubate at room temperature for 15 min in the dark. The absence of light is necessary as the fluorochrome is photoinstability.
- 6. After the incubation period, add 1,5 ml of an erythrocyte-lysing solution and mix. Incubate at room temperature in the darkness (the blood should be well mixed with the lysing solution). Centrifuge at 540xq for 5 minutes. The supernatant is removed with a Pasteur pipette or with a vacuum pump.
- 7. Resuspend and a made a final wash with 3-5 mL of PBS at 540xg for 5 min.
- 8. After removing the supernatant and resuspending the cell pellet, add 300 µL of PBS and adquire on the flow cytometer are recorded.
- 9. Analyse on a flow cytometer or store at 2-8 °C in the dark until analysis. Samples can be run up to 24 hours after lysis.

#### 5. **REFERENCES**

- 1. Picker, L.J., et al., 1987, Am.J.Path., 128. 1811. Johnson A, Olofsson T. Flow cytometric clonal excess analysis of peripheral blood, routine handling, and pitfalls in interpretation Cytometry 1993: 14: 188-95.
- 2. Cartron G, Linassier C, Bremond JL, Desablens B, Georget MT, Fimbel B, et al. CD5 negative B-cell chronic lymphocytic leukemia: clinical and biological features of 42 cases, Leuk Lymphoma 1998; 31: 209-16.
- 3. Gandini D, Lanza F, Latorraca A, Levato F, Del Senno L, Castoldi G. Immunophenotypic and genotypic characterization of B- cell chronic lymphocytic leukemia patients from Northern Italy. Haematologica 1993; 78: 18-24.
- 4. Braylan RC, Orfao A, Borowitz MJ, Davis BH, Optimal number of reagents required to evaluate hematolymphoid neoplasias: results of an international consensus meeting. Cytometry 2001: 46: 23-7.



#### **EXPLANATION OF SYMBOLS** 6.

	Form
REF	Catalog reference
$\Sigma$	Contains sufficient for <n> test</n>
$\bigcirc$	Quantity per test
	Regulatory Status
RUO	Research Use Only
•••	Manufacturer

#### 7. MANUFACTURED BY:

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