Anti-Human CD305 (LAIRI) (NKTA255)



$\left \left \right\rangle \right $	REF	$\sum_{i=1}^{n}$	\bigcirc	[A]	₽]	5.
PURE	LAIRPU	l mg	l mg/ml		1	
FITC	LAIRF-100T	100 test	20 µL/test	2 mg/ml		
PE	LAIRPE-100T	100 test	20 µL/test	2 mg/ml	RUO	
PerCP-Cyanine5.5 APC	LAIRPP5.5-100T	100 test	5 µL/test	0,05 mg/ml		
	LAIRA-100T	100 test	5 µL/test	0,05 mg/ml		

PRODUCT DESCRIPTION 1.

Clone: NKTA255

Isotype: Mouse IgGI, kappa;

Tested application: flow cytometry (QC testing);

Immunogen: recombinant human LAIR-1 amino acids 22-125 purified from E. coli 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_):

Recommended usage: Immunostep's CD305, clone NKTA255, is a monoclonal antibody intended for the identification of Human CD305 also known as LAIR-1 (leukocyteassociated Iq-like receptor-I) a type I transmembrane glycoprotein expressed on NK cells, T cells, B cells, monocytes, dendritic cells, eosinophils, basophils and mast cells. This reagent is effective for direct immunofluorescence staining of human tissue for flow cytometric analysis using I test for 10⁶ cells;

Presentation: liquid;

Source: Supernatant proceeding from an in vitro cell culture of a cell hybridoma; Purification: Affinity chromatography;

Other names: LAIR-I, LAIRI, Leukocyte-associated Ig-like receptor I; Gene ID: 3903:

Molecular weight: 40 kDa.

2. ANTIGEN DETAILS

Large description: This antibody reacts with LAIR-1 a type I transmembrane glycoprotein member of LAIR family in the lo superfamily.

The expression of leukocyte-associated immunoglobulin-like receptor-I (also known as LAIRI, LAIR-1 or CD305), an inhibitor of B-cell receptor-mediated signaling, has been reported to be lacking in high-risk chronic lymphocytic leukemia.(1-3)

WARRANTY З.

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.

ADDITIONAL INFORMATION 4.

For research use only. Not for diagnostic use.

Not for resale. Immunostep will not be responsible of violations that may occur with the use of this product. Any use of this product other than the specified in this document is strictly prohibited.

Unless otherwise indicated by Immunostep by written authorization, this product is intended for research only and is not to be used for any other purpose, including without limitation, for human or animal diagnostic, therapeutic or commercial purposes.

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

PROTOCOL

Direct 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 the suggested volume indicated on the antibody vial to the 12x75 mm cytometer 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. Centrifuge tubes at 540xg for 5 minutes. The supernatant is removed with a Pasteur pipette or with a vacuum pump.
- 6. Resuspend and wash with 3-5 mL of PBS at 540xg for 5 min.
- 7. After removing the supernatant and resuspending the cell pellet, add 300 μ L of PBS and adquire on the flow cytometer are recorded.
- 8. 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
- 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 540xg 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.

REFERENCES

6.

- Poggi A, Pella N, Morelli L, Spada F, Revello V, Sivori S, Augugliaro R, Moretta L, 1 Moretta A. p40, a novel surface molecule involved in the regulation of the non-major histocompatibility complex-restricted cytolytic activity in humans. Eur J Immunol. 1995 Feb;25(2):369-76. doi: 10.1002/eji.1830250210. PMID: 7875198.
- 2. Perbellini O, Falisi E, Giaretta I, Boscaro E, Novella E, Facco M, Fortuna S, Finotto S, Amati E, Maniscalco F, Montaldi A, Alghisi A, Aprili F, Bonaldi L, Paolini R, Scupoli MT, Trentin

L, Ambrosetti A, Semenzato G, Pizzolo G, Rodeghiero F, Visco C. Clinical significance of LAIRI (CD305) as assessed by flow cytometry in a prospective series of patients with chronic lymphocytic leukemia. Haematologica. 2014 May;99(5):881-7. doi: 10.3324/ haematol.2013.096362. Epub 2014 Jan 10. PMID: 24415628; PMCID: PMC4008102.

З. Devin J, Kassambara A, Bruyer A, Moreaux J, Bret C. Phenotypic Characterization of Diffuse Large B-Cell Lymphoma Cells and Prognostic Impact. J Clin Med. 2019 Jul 22:8(7):1074. doi: 10.3390/icm8071074. PMID: 31336593: PMCID: PMC6678649.

6. EXPLANATION OF SYMBOLS

ļ	Form
REF	Catalog reference
$\sum_{i=1}^{n}$	Contains sufficient for > test
\bigcirc	Quantity per test
₽)	Regulatory Status
RUO	Research Use Only
[A]	Concentration

Manufacturer

MANUFACTURED BY:

7.

IMMUNOSTEP S.L.

E-mail:



Address: Avda, Universidad de Coimbra, s/n Cancer Research Center (C.I.C) Campus de Unamuno 37007 Salamanca (Spain) Telf./fax: (+34) 923 294 827 info@immunostep.com www.immunostep.com