

IOTest Anti-IL-17A-Pacific Blue

PN B76266 – 50 tests – Liquid – 10 µL/test – Clone BL168

For Research Use Only. Not for use in diagnostic procedures.

IOTest
Anti-IL-17A-Pacific Blue
PN B76266
Conjugated Antibody– Liquid
50 tests; 10 µL / test

Specifications	
Clone	BL168
Hybridoma	ND
Immunogen	Recombinant full length human IL-17A
Isotype	IgG1 kappa
Species	Mouse
Source	Purified
Purification	Affinity chromatography
Fluorochrome	Pacific Blue
Molar ratio	Pacific Blue / Ig: 6 - 8
λ excitation	405 nm
Emission Peak	455 nm
Buffer	PBS pH 7.2 plus 2 mg / mL BSA and 0.1% NaN ₃

SPECIFICITY

IL17-A is a member of the IL-17 family which is constituted by 6 members (IL-17A to IL-17F). IL-17A is commonly refer to as IL-17 and is produced as a homodimer of about 30 kDa. IL-17A is mainly secreted by a subset of CD4 + T cells, namely the Th17 cells, which are helper cells that are distinct from Th1 and Th2 cells (1, 3). In addition to Th17 cells, other immune cells such as γδ T cells, CD8+ T cells, NK cells and Innate Lymphoid cells (ILCs) can be activated to secrete IL-17. IL-17 is a pro-inflammatory molecule that induces the production of chemokines and other cytokines by various cell types, i.e fibroblasts, epithelial cells, endothelial cells, macrophages and neutrophils, which helps the recruitment of innate immune cells at the site of activation (2, 4).

REAGENT CONTENTS

Concentration: See lot specific Certificate of Analysis at www.beckmancoulter.com.

APPLICATION

Flow cytometry.

PRECAUTIONS

1. This reagent contains 0.1% sodium azide. Sodium azide under acid conditions yields hydrazoic acid, an extremely toxic compound. Azide compounds should be flushed with running water while being discarded. These precautions are recommended to avoid deposits in metal piping in which explosive conditions can develop. If skin or eye contact occurs, wash excessively with water.

2. Specimens, samples and all material coming in contact with them should be considered potentially infectious and disposed of with proper precautions.
3. Never pipet by mouth and avoid contact of samples with skin and mucous membranes.
4. Do not use antibody beyond the expiration date on the label.
5. Do not expose reagents to strong light during storage or incubation.
6. Avoid microbial contamination of reagents or incorrect results might occur.
7. Use good laboratory practices when handling this reagent.
8. Any change in the physical appearance of the reagents may indicate deterioration and the reagent should not be used.

STORAGE AND HANDLING CONDITIONS AND STABILITY

This reagent is stable up to the expiration date when stored at 2 – 8°C. Do not freeze. No reconstitution is necessary. This monoclonal antibody may be used directly from the vial. Bring reagent to 18 – 25°C prior to use.

PROCEDURE

PerFix-nc* is a fixation and permeabilization kit used to prepare biological samples for analysis by flow cytometry. PerFix-nc kit lyses red blood cells and induces permeability in the cytoplasmic membrane of leukocytes simultaneously for the demonstration of intracellular and extracellular antigenic determinants by means of fluorescent probes. For further information regarding the kit, please refer to <http://www.beckmancoulterreagents.com/>.

High Fixation Procedure for activated whole blood samples

1. Pipet 50 µL of activated blood sample into the bottom of each appropriately labeled tube. Avoid getting specimen on the side of the tube; otherwise it may not be appropriately processed.
2. Pipet 25 µL of the Fixative Reagent to each tube.
3. Vortex immediately and incubate for 15 min at room temperature (18 – 25°C).
4. Add 2 mL of PBS 1X
5. Pellet the cells at 150 x g for 5 minutes, and completely discard the supernatant by aspiration.
6. Add 25 µL of FCS, vortex vigorously to ensure complete re-suspension of the cells
7. Add 300 µL of the permeabilizing Reagent to each tube; vortex immediately.
8. Immediately add to each tube 10 µl of Anti-IL-17A-PacBlue and optimal volumes of associated conjugates
9. Vortex immediately and incubate for 45 min at room temperature protected from light.
10. Add 3 mL of the Final 1 X Reagent (prepared from the 10 X concentrated Final Solution) to each tube; vortex immediately.
11. Pellet the cells at 500 x g for 5 minutes, and completely discard the supernatant by aspiration.
12. Resuspend the cell pellet in 0.5 mL of the same Final 1X Reagent; the sample is now ready for acquisition on a flow cytometer.

* For PerFix-nc Part Numbers, please refer to the regulatory status available in your country

	75 tests	150 tests
RUO	B10825	B10826
IVD/CE-IVD	B31167	B31168

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SELECTED RESEARCH REFERENCES

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2. Interleukin-17 and innate immunity in infections and chronic inflammation. Natasa Isailovic, Kenji Daigo, Alberto Mantovani, Carlo Selmi. Journal of Autoimmunity 60 (2015) 1-11.
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David Bending, Anne M. Pesenacker, Simona Ursu, Qiong Wu, Hannah Lom, Balathas Thirugnanabalan, and Lucy R. Wedderburn. J. Immunol., Sep 2014; 193: 2699 - 2708.
4. TGF- β Induces IL-9 Production from Human Th17 Cells
Gaëlle Beriou, Elizabeth M. Bradshaw, Ester Lozano, Cristina M. Costantino, William D. Hastings, Tihamer Orban, Wassim Elyaman, Samia J. Khoury, Vijay K. Kuchroo, Clare Baecher-Allan, and David A. Hafler. J. Immunol., Jul 2010; 185: 46 - 54.

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