



BD Anti-Lambda (1-155-2)

Monoclonal Antibodies Detecting Human Antigens

Form	Catalog number
Pure	345130
FITC	346600
PE	642919
APC-H7	656648

Product availability varies by region. Contact BD Biosciences Customer Support or your local sales representative for information.

Research Applications

Research applications include studies of:

- Enumeration of B lymphocytes bearing lambda light chains in peripheral blood¹⁻¹⁰
- Characterization of the clonality of B-cell leukemias in peripheral blood^{1,2,7,9,11}

Description

Specificity

The Anti-Lambda antibody specifically recognizes lambda light chains of human immunoglobulins.¹²

Antigen distribution

Immunoglobulins bearing lambda light chains are present on approximately 50% of normal B lymphocytes and on Igλ⁺ leukemic cells.¹⁻⁹ In serum, the Anti-Lambda antibody reacts with immunoglobulins bearing lambda light chains as well as free lambda light chains.

Clone

The Anti-Lambda antibody, clone 1-155-2, is derived from the hybridization of P3-X63-Ag8.653 mouse myeloma cells with cells from BALB/cJ mice immunized with human IgA₁-λ myeloma protein.

Composition

The Anti-Lambda antibody is composed of mouse IgG₁ heavy chains and lambda light chains.

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

Product configuration

The following are supplied in buffer containing a stabilizer and a preservative.

Form	Number of tests	Volume per test (μL)	Amount provided (μg)	Total volume (mL)	Concentration (μg/mL)	Stabilizer	Preservative
Pure	100	20	100	2.0	50	Gelatin	0.1% Sodium azide
FITC	50	20	12.5	1.0	12.5	Gelatin	0.1% Sodium azide
PE	50	20	12.5	1.0	12.5	BSA	0.1% Sodium azide
APC-H7	100	5	50	0.5	100	BSA	CMIT/MIT (3:1)

CAUTION Some APC-H7 conjugates show changes in their emission spectra with prolonged exposure to paraformaldehyde or light. For overnight storage of stained cells, wash and resuspend in buffer without paraformaldehyde after 1 hour of fixation.

Procedure

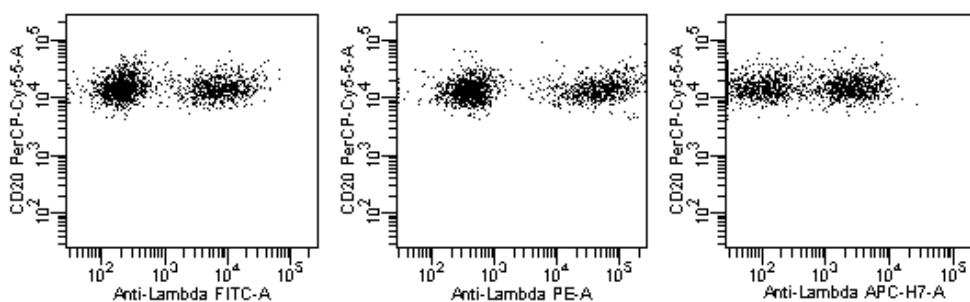
Go to our website (bdbiosciences.com) or contact your local BD representative for the lyse/wash protocol for direct immunofluorescence.

NOTE To avoid interference from serum antibodies when using these reagents, it is necessary to prewash the whole blood sample twice using at least 24 volumes of 1X PBS containing 0.1% sodium azide (for example, 48 mL of 1X PBS containing sodium azide per 2 mL of whole blood to be washed). Mix well. Pellet cells by centrifugation and resuspend in 1X PBS containing 0.1% sodium azide at the original volume.

Representative Data

Performed on twice prewashed whole blood and gated on CD20⁺ B cells. Laser excitation is at 488 or 635 nm.

Figure 1 Representative data analyzed with a BD flow cytometer




Handling and Storage

Store vials at 2–8 °C. Conjugated forms should not be frozen. Protect from exposure to light. Each reagent is stable until the expiration date shown on the bottle label when stored as directed.

Warning

All biological specimens and materials coming in contact with them are considered biohazards. Handle as if capable of transmitting infection^{13,14} and dispose of with proper precautions in accordance with federal, state, and local regulations. Never pipette by mouth. Wear suitable protective clothing, eyewear, and gloves.

The APC-H7 conjugate contains a mixture of 0.00236% 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H -isothiazol-3-one [CMIT/MIT (3:1)], CAS number 55965-84-9. The reagent is classified as hazardous according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

	Warning
	H317: May cause an allergic skin reaction.
Prevention	P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P272: Contaminated work clothing should not be allowed out of the workplace. P280: Wear protective gloves/protective clothing/eye protection/face protection.
Response	P302+P352: IF ON SKIN: Wash with plenty of water. P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P362+P364: Take off contaminated clothing and wash it before reuse.
Disposal	P501: Dispose of contents/container to an approved facility in accordance with local, regional, national and international regulations.

Go to regdocs.bd.com to download the Safety Data Sheet.

Characterization

To ensure consistently high-quality reagents, each lot of antibody is tested for conformance with characteristics of a standard reagent.

Warranty

Unless otherwise indicated in any applicable BD general conditions of sale for non-US customers, the following warranty applies to the purchase of these products.

THE PRODUCTS SOLD HEREUNDER ARE WARRANTED ONLY TO CONFORM TO THE QUANTITY AND CONTENTS STATED ON THE LABEL OR IN THE PRODUCT LABELING AT THE TIME OF DELIVERY TO THE CUSTOMER. BD DISCLAIMS HEREBY ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR ANY PARTICULAR PURPOSE AND NONINFRINGEMENT. BD'S SOLE LIABILITY IS LIMITED TO EITHER REPLACEMENT OF THE PRODUCTS OR REFUND OF THE PURCHASE PRICE. BD IS NOT LIABLE FOR PROPERTY DAMAGE OR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING PERSONAL INJURY, OR ECONOMIC LOSS, CAUSED BY THE PRODUCT.

References

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