

BD Horizon™ Dri TBNK + CD20 Panel

Catalog No. 625642

5 Tests/kit

RESEARCH APPLICATIONS

Research applications include the identification of lymphocyte subsets in human specimens.

DESCRIPTION

The BD Horizon™ Dri TBNK + CD20 Panel tube contains a dried, pre-aliquoted antibody cocktail comprising markers commonly used for the identification of lymphocyte subsets. The dried multicolor panel has been performance-optimized in terms of fluorochrome choice for each specificity as well as concentration of each conjugate. It is designed for use on a flow cytometer that has blue, red, and violet lasers.

KIT COMPONENTS

BD Horizon Dri TBNK + CD20 Panel contains the following:

- BD Horizon Dri TBNK + CD20 Panel

The reagent is provided as 5 single-use tubes of dried reagent cocktail in a foil pouch.

- 1 compensation kit containing:

- CD4 PE-Cy™7
- CD8 APC-Cy™7

The compensation reagents are provided as one single-use tube of each conjugate in a dried format in a foil pouch. Only fluorochromes for tandem conjugates are included in this kit. Any other fluorochromes that need adjusting can be done using BD® FC Beads or other compensation beads.

Panel composition

The panel comprises the following fluorochrome-conjugated antibodies:

Format	V450 ^a	FITC	PE	PE	PerCP-Cy™5.5	PE-Cy™7	APC	APC-Cy™7
Specificity	CD20	CD3	CD16	CD56	CD45	CD4	CD19	CD8
Clone	L27	SK7	B73.1	NCAM16.2	2D1 (HLe-1)	SK3	SJ25C1	SK1

a. BD Horizon™ V450

STORAGE AND HANDLING

Store tubes in their original foil pouch at room temperature (20°C–25°C). Do not expose the reagent to direct light during storage or incubation with cells. Once the pouch is opened, use the remaining tubes within 1 month (when stored as directed). Do not use reagents beyond the expiration date indicated on the label.

CAUTION Due to the moisture sensitivity of the reagent, ensure the pouch is immediately and completely resealed after removing a tube. Do not remove the desiccant from the reagent pouch.

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


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WARNING

All biological specimens and materials coming in contact with them are considered biohazards. Handle as if capable of transmitting infection^{1,2} 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 reagent contains 6.4966% 1,2,3-propanetriol (CAS number 56-81-5), 0.7582% 2-methyl-4-isothiazolin-3-one (CAS number 2682-20-4), and 0.0977% sodium azide (CAS number 26628-22-8). The reagent is classified as hazardous according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Visit regdocs.bd.com to download the Safety Data Sheet.

	Warning
	H317: May cause an allergic skin reaction. H401: Toxic to aquatic life. H412: Harmful to aquatic life with long lasting effects.
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. P273: Avoid release to the environment.
Response	P302+P352: IF ON SKIN: Wash with plenty of water/... P333+P313: If skin irritation or rash occurs: Get medical advice/attention. P321: Specific treatment (see Safety Data Sheet). P363: Wash contaminated clothing before reuse.
Disposal	P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

NOTE Source of all serum proteins is from USDA inspected abattoirs located in the United States.

PROCEDURE

Additional required reagents and materials

- BD FACSTM Lysing Solution (Catalog No. 347691)
- If creating user-defined reference settings:
 - BD® FC Beads FITC (Catalog No. 661615)
 - BD® FC Beads V450 (Catalog No. 661623)
 - BD® FC Beads PE (Catalog No. 661616)
 - BD® FC Beads APC (Catalog No. 661620)
 - BD® FC Beads PerCP-Cy™5.5 (Catalog No. 661619)

Staining the specimen

Use aseptic blood collected in EDTA blood collection tubes.

1. Remove a tube from the reagent pouch and the 2 tubes from the compensation pouch, and place them in a rack, protected from light.

The compensation tubes are stained the first time you run the assay.

NOTE You can prepare compensation tubes for the other fluorochromes using BD FC Beads or other compensation beads, if needed.

2. Immediately reseal the pouch containing the remaining reagent tubes.
3. Add 50 µL of well-mixed, anticoagulated whole blood to the bottom of the air-dried reagent cocktail tube and mix to complete reconstitution by gentle pipetting/vortexing for 4 seconds.

4. Incubate 15 minutes at room temperature, protected from exposure to direct light.
5. Add 450 μ L of 1X BD FACS Lysing Solution to the tube. Vortex to mix.
6. Incubate for 15 minutes in the dark at room temperature.

The sample is now ready for acquisition.

Acquiring the sample

To acquire the stained sample on a BD FACSLytic™ flow cytometer:

1. Select Lyse/No-Wash tube settings.
2. Vortex the tube briefly and install it on the instrument.
3. Preview the sample to determine whether the photomultiplier tube voltages (PMTVs) and/or the compensation values need to be adjusted.
 - a. If no adjustments are needed, keep the default Lyse/No-Wash tube settings for acquisition.
 - b. If the PMTVs are adjusted, create tube settings for the new PMTVs.
 - c. If compensation values need to be adjusted, create user-defined reference settings by acquiring the appropriate compensation tubes, and create tube settings.

See the *BD FACSLytic™ Reference System* for more information.

4. Acquire the sample using the optimal tube settings.

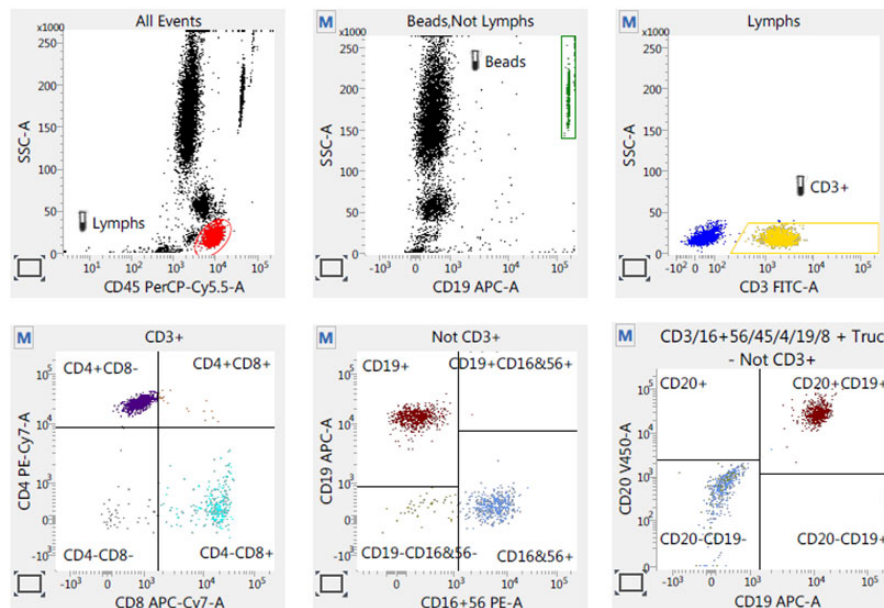
NOTE For sample acquisition on other flow cytometers, please follow the manufacturer's instructions for compensation setup.

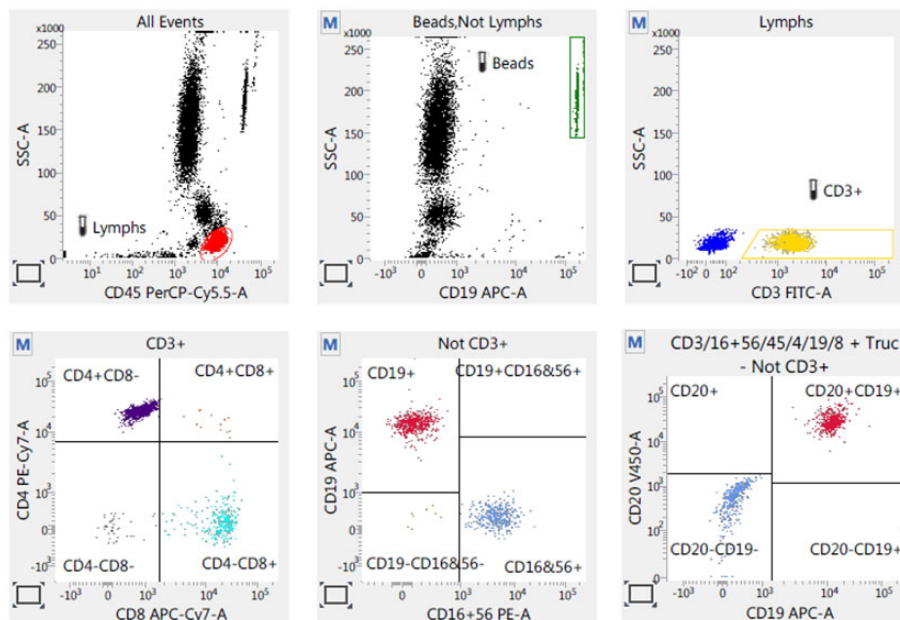
5. Analyze the sample.

REPRESENTATIVE DATA

Samples prepared from normal donors were stained using BD Multitest™ 6-Color TBNK with a CD20 V450 drop-in (Figure 1, top panel) or BD Horizon Dri TBNK + CD20 (Figure 1, bottom panel). Stained samples were transferred to BD Trucount™ Tubes and acquired on a BD FACSLytic™ flow cytometer.

Figure 1 Representative data from cells stained using the liquid reagent with a CD20 drop-in (top panel) or the dried reagent (bottom panel).





CHARACTERIZATION

To ensure consistently high-quality reagents, each lot of antibody is tested for conformance with characteristics of a standard reagent. Representative flow cytometric data is included in this data sheet.

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.

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REFERENCES

1. *Protection of Laboratory Workers from Occupationally Acquired Infections; Approved Guideline—Fourth Edition*. Wayne, PA: Clinical and Laboratory Standards Institute; 2014. CLSI document M29-A4.
2. Centers for Disease Control and Prevention. 2007 Guideline for Isolation Precautions: Preventing Transmission of Infectious Agents in Healthcare Settings. <https://www.cdc.gov/infectioncontrol/guidelines/isolation/index.html>. Accessed March 12, 2019.

PATENTS AND TRADEMARKS

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