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**TECHNICAL DATA SHEET**

# RBC Lysis Buffer (10X)

Catalog Number: TNB-4300

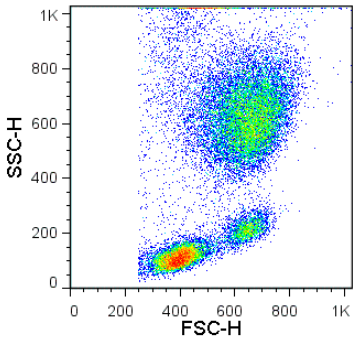
## PRODUCT INFORMATION

**Contents:** RBC Lysis Buffer (10X)

**Use By:** 6 months from date of receipt

**Storage Conditions:** Store undiluted at 2-8°C

**Formulation:** 10X concentrated ammonium chloride-based lysing buffer. RBC Lysis Buffer (10X) contains NO azide.




Human peripheral blood cells were lysed with RBC Lysis Buffer (TNB-4300-L100). The scatter profile of lysed cells is shown.

## DESCRIPTION

RBC Lysis Buffer (10X) is a concentrated ammonium chloride-based lysing reagent. The diluted 1X working solution will lyse red blood cells in single cell suspensions with minimal effects on leukocytes. RBC Lysis Buffer (10X) does not contain a fixative so the cells remain viable after red blood cell lysis.

## PREPARATION & STORAGE

RBC Lysis Buffer is supplied as a 10X stock solution and must be diluted to a 1X solution with distilled water prior to use. The 1X working solution should be warmed to room temperature prior to use.

## APPLICATION NOTES

RBC Lysis Buffer (10X) has been quality-tested for flow cytometry using normal human peripheral blood samples followed by flow cytometric analysis.

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

# RBC Lysing Protocol

**RBC Lysis Buffer (10X) Cat. No. TNB-4300-L100**

**Other Materials Required**

- Flow Cytometry Staining Buffer (Stain Buffer) (1X PBS with 2% FBS, 0.09% Na-Azide)

**Note:** This protocol applies to human whole blood preparations. For use with other tissue samples, it is recommended that the investigator optimize conditions to obtain best results. RBC Lysis Buffer (10X) has been tested using blood collected with either heparin or EDTA as the anti-coagulant and found to perform equivalently.

1. Prepare 1X RBC Lysing Buffer by adding 1 part RBC Lysing Buffer (10X) with 9 parts room temperature distilled water.
2. Aliquot a sample of whole blood, typically 50-100 µL, to tube.
3. Add fluorochrome-labeled antibodies for staining directly to sample and mix thoroughly.
4. Incubate for 30 minutes at room temperature and protected from light.
5. Add 2 mL of room temperature 1X RBC Lysing Buffer (prepared in step 1) and pulse vortex (<5 seconds).
6. Incubate for 10-15 minutes at room temperature and protected from light.
7. Centrifuge cells at 500 x *g* for 5 minutes at room temperature.
8. Carefully decant supernatant and wash cells once with 1-2 mL Stain Buffer.
9. Centrifuge cells as in Step 7 and resuspend at the appropriate volume for analysis.

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