

## TECHNICAL DATA SHEET

# Ghost Dye™ Violet 540

Catalog Number: 13-0879

## PRODUCT INFORMATION

**Contents:** Ghost Dye™ Violet 540

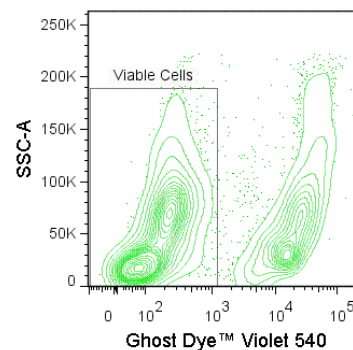
**Excitation Laser:** Violet (405 nm)

**Emission (nm):** 537

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

**Storage Conditions:** -20°C protected from light and moisture

**Formulation:** 1 µL/test in DMSO



Mouse bone marrow cells were heat killed at 65°C for 10 minutes and then mixed with live mouse bone marrow cells. Cells were then stained with Ghost Violet 540. Viable gate is indicated.

## DESCRIPTION

Ghost Dye™ Violet 540 is an amine reactive viability dye that can be used to discriminate viable from non-viable mammalian cells in flow cytometry applications. This dye irreversibly binds free amines available on the cell surface as well as intracellular free amines exposed in cells with compromised cell membranes. Necrotic cells with compromised membranes will react with significantly more Ghost Dye™ Violet 540 dye than viable cells in the same sample and therefore will exhibit much greater fluorescence intensity allowing exclusion of these cells from analysis.

## PREPARATION & STORAGE

Ghost Dye™ Violet 540 is provided in solution prepared in anhydrous DMSO and should be protected from light and moisture. Store vial at -20°C. Prior to use, allow vial to equilibrate to room temperature before opening. Ghost Violet 540 dye is stable through 20 freeze/thaw cycles, if needed, aliquot smaller volumes and store at -20°C. Cells labeled with Ghost Dyes™ can be cryopreserved for later use or used in intracellular staining protocols without any loss of fluorescence intensity.

## APPLICATION NOTES

Ghost Dye™ Violet 540 has been quality-tested for flow cytometry using mouse bone marrow cells and can be used at 1 µL/mL of cell suspension. The concentration required for optimal performance should be determined empirically by investigator.

Ghost Dye™ Violet 540 is excited by the violet (405 nm) laser line and has a peak emission of 537 nm that can be detected using a 525/50 band pass filter commonly used for detection of AmCyan.

## REFERENCES

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.

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