

TECHNICAL DATA SHEET

Ghost Dye™ UV 450

Catalog Number: 13-0868

PRODUCT INFORMATION

Contents: Ghost Dye™ UV 450

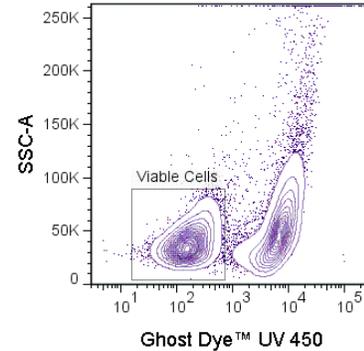
Excitation Laser: UV (355 nm)

Emission (nm): 450

Use By: 6 months from date of receipt

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

Formulation: 1 uL/test in DMSO



Mouse splenocytes were stimulated overnight with PMA and ionomycin and stained with Ghost UV 450. Viable gate is indicated.

DESCRIPTION

Ghost Dye™ UV 450 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 UV 450 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™ UV 450 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 UV 450 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™ UV 450 has been quality-tested for flow cytometry using mouse thymocytes and can be used at 1 uL/mL of cell suspension. The concentration required for optimal performance should be determined empirically by investigator.

Ghost UV 450 is excited by the UV (355 nm) laser line and has a peak emission of 450 nm that can be detected using 450/50 band pass filters commonly used for detection of DAPI, Hoechst 33258, etc.

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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