

## Cell Navigator™ Flow Cytometric Exosome Staining Kit

Catalog number: 22426  
Unit size: 100 Tests

| Component                    | Storage                                        | Amount (Cat No. 22426) |
|------------------------------|------------------------------------------------|------------------------|
| Exosome CD9 Staining Reagent | Refrigerated (2-8 °C), Minimize light exposure | 1 Vial (100 Tests)     |

### OVERVIEW

Exosomes, nanoscale (30-150 nm) membrane-bound vesicles secreted by cells, are central to intercellular communication. They transfer proteins, lipids, and nucleic acids, including RNA species, between cells, playing a pivotal role in physiological and pathological processes such as immune modulation, disease progression, and genetic information exchange. This makes exosomes key targets in therapeutic and diagnostic research. However, challenges such as dye aggregation and the absence of bright, specific probes have hindered the reliable detection and analysis of exosomes. The Cell Navigator™ Flow Cytometric Exosome Staining Kit addresses these challenges by enabling the detection of CD9-positive exosomes in purified or bead-bound samples. It utilizes a fluorescent dye-conjugated CD9 marker for targeted visualization, providing a straightforward staining protocol for rapid and accurate exosome detection in diverse sample matrices, including cell culture supernatants, biological fluids, and isolated exosome preparations. To ensure effective detection and analysis, it is essential to enrich the cell culture media for exosomes before staining. This can be achieved through efficient methods such as the ReadiPrep™ Exosome Isolation Kit (Cat No. 60204) or traditional ultracentrifugation.

### KEY PARAMETERS

#### Flow cytometer

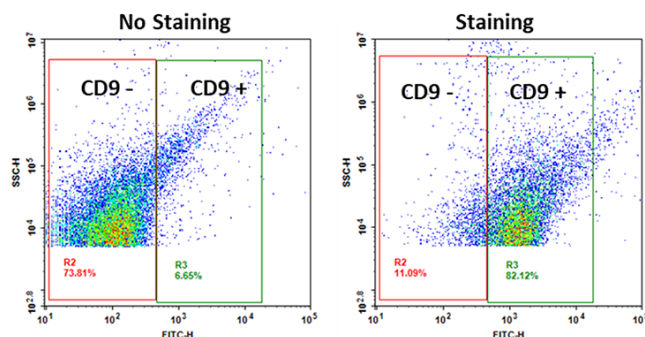
|                             |                  |
|-----------------------------|------------------|
| Emission                    | 530/30 nm Filter |
| Excitation                  | 488 nm Laser     |
| Instrument specification(s) | FITC Channel     |

### SAMPLE EXPERIMENTAL PROTOCOL

#### Staining of Exosomes

1. Isolate exosomes from cell culture medium using the ReadiPrep™ Exosome Isolation Kit (Cat# 60204) or your method of choice.
2. Add 5 µL of Exosome CD9 Staining Reagent into 100 µL of exosome solution.
3. Incubate the mix for 1 to 3 hours in the dark at room temperature.
4. Perform flow cytometry with FITC filter set (488 nm laser with 530/30 nm filter).

### EXAMPLE DATA ANALYSIS AND FIGURES



**Figure 1.** Exosomes from 100,000 HeLa cells (cultured for 16 hours in 10 mL serum-free medium) were isolated using ReadiPrep™ Exosome Isolation Kit (Cat# 60204) and detected using the Cell Navigator™ Flow Cytometric Exosome Staining Kit (Cat# 22426).

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