

Cell stimulation and Protein Transport Inhibitor Kit

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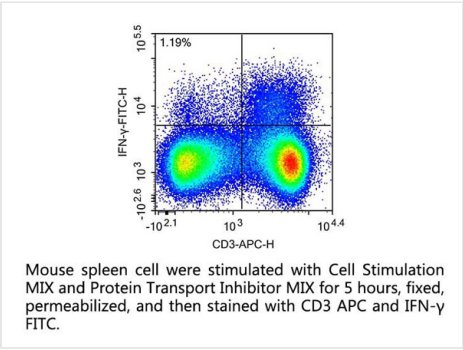
CATALOG #
AAA178129

PRODUCT SYNONYMS

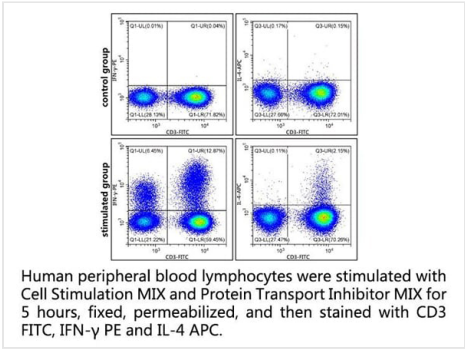
Cell stimulation and Protein Transport Inhibitor; Cell stimulation and Protein Transport Inhibitor Kit; Cell stimulation and Protein Transport Inhibitor kit

PRODUCT SPECIFICATIONS

Reagent Preparation	1) 500×Cell Stimulation MIX Add 100 uL Cell Stimulation MIX Solvent to dissolve a vial of Cell Stimulation MIX and mix fully. 2) 1000×Protein Transport Inhibitor MIX Add 50 uL absolute ethanol (self-prepared) to a vial of Protein Transport Inhibitor MIX and mix fully. Note: Centrifuge at 2000~10000×g for several seconds before use and then open the cover for use. Absolute ethanol is volatile, please keep it sealed properly.
Experimental Procedure	Application 1: Cytokine content or activity detection in cell culture supernatant 1. Prepare the single cell suspension with complete medium (self-prepared), and adjust the cell density to 1~2×10⁶/mL. Note: The cell density should not be too high, and the maximum density should be less than 2×10⁶/mL, high cell density will affect cell activation efficiency. Make sure the cells are in good condition before stimulation, especially for freshly prepared primary cells. 2. Add 2 uL of 500× Cell Stimulation MIX to each 1 mL of cell suspension, and incubate the cells at 37 degree C, 5%CO₂ for 4~18 h (It is recommended to determine the optimal induction time by setting up a pre-experiment with different induction times for the cytokines to be tested. The common induction time can be refer to table 1). 3. Collect cell culture supernatant for the subsequent detection or store at -80 degree C for later use (the supernatant contains a variety of cytokines secreted by cells, which can be used to detect the content and activity of cytokines by ELISA or other biochemical reagents). Application 2: Intracellular factor detection 1. Prepare the single cell suspension with complete medium (self-prepared), and adjust the cell density to 1~2×10⁶/mL. Note: The cell density should not be too high, and the maximum density should be less than 2×10⁶/mL, high cell density will affect cell activation efficiency. Make sure the cells are in good condition before stimulation, especially for freshly prepared primary cells. 2. Add 2 uL of 500× Cell Stimulation MIX to each 1mL of cell suspension, and incubate the cells at 37 degree C, 5%CO₂ for 1.5~1 h. 3. Add 1 uL of 1000×Protein Transport Inhibitor MIX to each 1mL of cell suspension, and incubate the cells at 37 degree C, 5%CO₂ for 5~16 h (It is recommended to determine the optimal induction time by setting up a pre-experiment with different induction times for the cytokines to be tested. The common induction time can be refer to table 1). 4. Collect cell suspension, centrifuge at 200~300×g for 5 min, discard the supernatant and collect the cell pellet which could be used for subsequent intracellular factor detection after fixation.
Preparation and Storage	Store at -20 degree C, shading light Estimated Expiration: 12 months Shipping: Ice bag



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for Cell stimulation and Protein Transport Inhibitor kit	Background: Cell Stimulation and Protein Transport Inhibitor Kit is an optimized broad-spectrum immune cell stimulator and inhibitor that can induce and stimulate a variety of cells in vitro to produce cytokines and block the transport of secreted proteins to the extracellular. Cell stimulation and Protein Transport Inhibitor Kit is mainly composed of Cell Stimulation MIX and Protein Transport Inhibitor MIX. Cell Stimulation MIX is a mixture of Phorbol 12-Myristate 13-Acetate (PMA) and Ionomycin, which can induce various cell activation and secrete cytokines. Protein Transport Inhibitor MIX is mainly composed of Monensin and Brefeldin A, which can prevent the loss of cytokine transport. After cell membrane rupture, cytokines can be detected.
Product Categories/Family for Cell stimulation and Protein Transport Inhibitor kit	Cell Apoptosis

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.