

Time: 2024.07.15-2024.07.21

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1. **Experiment:** Molecules on the cells' surface detected by the flow cytometry
2. **Time:** 2024.07.15-2024.07.21
3. **Member:** Song Zhang, Xudong Tang, Hanyue Liu, Xiaoyuan Chen, Xinyu Zhu, Yinran Luo, Yaqi Gao
4. **Material:** FACS buffer, Fc receptor antibody (BioLegend), fluorescent antibody (BioLegen), PBS.
5. **Method:**
  - (1) Preparation of Cell Suspension Samples: The effector cells were collected after 4 hrs of co-culture with tumor cells. Then, they were centrifuged  $1 \times 10^5$  to  $1 \times 10^7$  at  $4^\circ\text{C}$  for 5 mins at 250 g and the supernatant was discarded. The cells are resuspended in 100  $\mu\text{L}$  of FACS buffer.
  - (2) Preparation of Experimental Groups: Experimental groups, a blank control group, an isotype control group, and a single stain control group were set up.
  - (3) The blocking of Fc Receptors on Cell Surface: 0.5  $\mu\text{L}$  of Fc receptor antibody was added and the mixture was incubated in the dark at  $4^\circ\text{C}$  for 30 mins.
  - (4) The binding of fluorescent antibodies to Cells: 1  $\mu\text{L}$  of fluorescent antibody was added and the mixture was incubated in the dark at  $4^\circ\text{C}$  for 30 mins.
  - (5) Pre-cooled PBS was added to remove unbound fluorescent antibodies. Then the cells were centrifuged at 1500 g for 5 mins and the supernatant was discarded. This step was repeated twice.
  - (6) The cells were resuspended in 500  $\mu\text{L}$  of PBS solution before loading.
  - (7) Flow cytometry analysis is performed.