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Ki-67 Staining Protocol by flow cytometry

- *1.* Prepare target cells of interest and centrifuge 2X with Washing Solution, at 350xg for 5 minutes.
- 2. Carefully aspirate the supernatant so as not to touch the cell pellet.
- While vortexing, add 3 ml drop by drop of cold 70% ethanol into the cells pellet. Then incubate at -20°C for 1 hour. These fixed cells can be used up to 60 days after fixing (Store at -20°C).
- 4. Add 30-40 ml of Staining Solution to the fixed cells.
- 5. Centrifuge the cells for 10 minutes at 350xg and aspirate supernatant. Wash twice and aspirate supernatant.
- 6. Resuspend the cells at the concentration of $0.5-10 \times 10^6$ cells/ml.
- 7. Transfer 100 µl of cell suspension into 12x75mm cytometer tubes.
- 8. Add the suggested volume indicated on the antibody vial into the tubes above. Mix gently.
- 9. Incubate the tubes at room temperature (RT) for 20-30 minutes in the dark.
- 10. Wash with 2 ml of Washing Solution at 350xg for 5 minutes.
- 11. Carefully aspirate the supernatant so as not to touch the cell pellet.
- 12. Add 0.5 ml of Wash Solution into each tube. Add 5 μl of the appropriate exclusion non viable cells die into each tube and incubate for 5 minutes.

Acquire on a flow cytometer or store in the dark at 2 -8°C until the analysis is carried out.

Note: Ki-67 is expressed by proliferating cells. Using resting cells (eg, unstimulated PBMC) may give negative results.

If unexpected staining is observed which cannot be explained by variations in laboratory procedures and a problem with the product is suspected, contact our Technical Services. (tech@immunostep.com)

Reagent list:

- Wash solution: 20 mM NaH₂PO₄ , 150 NaCl, pH 7.2 + 0,09% Sodium azide (NaN₃) + 0,5 % bovine serum albumin.
- Staining Solution: PBS 20 Mm, 150 NaCl with 1% FBS, 0.09% NaN₃ pH7.2
- Red blood cells lysing solution (if necessary)
- Flow cytometry solution: 20 Mm NaH₂PO₄, 150 NaCl, pH 7.2 + 1% Paraformaldehide.
- Exclusion non viable cells PI Staining Solution (Ref. PI) for FITC conjugated antibody.
- Exclusion non viable cells 7-AAD Staining Solution (Ref. 7AAD) for PE conjugated antibody.