Anti-CD3 mAb GMP grade

Code No. T210 Size: 1.0 mg/1.0 ml

Description:
Anti-CD3 antibodies are commonly used in T lymphocyte proliferation protocols. Among many available clones, "OKT3" (mouse IgG2a) is the most commonly used.
This monoclonal anti-CD3 antibody (clone OKT3) is manufactured as a quality-assured product, according to relevant PIC/S guidelines for Good Manufacturing Practice (GMP). This product can be used for *ex vivo* cell culture processing and is limited to investigational use only.

Storage: Store at or below -70℃

Source: Mouse hybridoma cells

Purity: >95% by HPLC

Form: Sterile solution in phosphate-buffered saline (PBS), pH 7.4, with 200 ppm polysorbate 80.

Packaging: 1.0 mg protein/1.0 ml in a 2 ml cryovial

Applications:
- CIK (cytokine-induced killer) cell expansion by stimulation with Anti-CD3 mAb GMP grade and cytokine.
- T lymphocyte expansion by co-stimulation with Anti-CD3 mAb GMP grade and RetroNectin®.

Instructions For Use:
1) Protocol for antibody immobilization
   Anti-CD3 mAb GMP grade can be coated on the surface of cell culture dishes, petri dishes, flasks, or bags (e.g., CultiLife™ 215 Culture bag (Cat. #FU0005) or other gas-permeable bags capable of being coated with anti-CD3 mAb). Use a concentration of 5 - 10 μg/ml to cover the surface at 1 - 2 μg/cm^2.
   1. Prior to coating, adjust the Anti-CD3 mAb GMP grade solution to a desired concentration (ranging from 5 to 10 μg protein/ml) by diluting with sterile PBS.
   2. Dispense an appropriate volume of sterile Anti-CD3 mAb GMP grade solution to the cell culture vessel, and allow to stand for 2 - 6 hours at room temperature or at 4℃ overnight.
   3. Remove the Anti-CD3 mAb GMP grade solution, and then add wash solution (e.g., PBS).
   4. Remove the wash solution. At this point, the surface has been coated with Anti-CD3 mAb GMP grade and is ready for use.

2) Protocol for soluble stimulation
   Anti-CD3 mAb GMP grade can be added directly to the culture at a concentration of 50 - 100 ng/ml.

Precautions:
- Work under sterile conditions.
- Once thawed, use the necessary quantity of thawed solution and discard any unused solution.

[Note]
The thawed solution is stable for 3 days at room temperature. Repeated freezing and thawing is not recommended.
Performance of this product is not guaranteed after storage at room temperature or after freezing and thawing.

Quality Statement:
1. Anti-CD3 mAb GMP grade is manufactured according to relevant PIC/S GMP guidelines.
2. With the exception of mouse hybridoma cells, we do not use any human- or animal-derived materials during the production of Anti-CD3 mAB GMP grade.
3. This product is for research use and *ex vivo* cell culture processing only. It is not intended for human *in vivo* application; do not inject or infuse this product directly into a patient.

References:

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7) Dodo K, Chono H, Saito N, Tanaka Y, Tahara K, Nukaya I, and Mineno J. An Efficient Large-Scale Retroviral Transduction Method Involving Preloading the Vector into a RetroNectin-Coated Bag with Low-Temperature Shaking. *PLoS ONE*. (2014) **9**(1): e86275.doi:10.1371/journal.pone.0086275

Related Products:
LymphoONE™ T-Cell Expansion Xeno-Free Medium, 1L Bottle (Cat. #WK552S)

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