MaxSortin® TCR αβ Isolation Kit

Product Name

English Name： MaxSortin® TCR αβ Isolation Kit

Packaging Specifications

Filling Volume/CatalugueNumber： 1Kit / TL-810KIT

Components:

Component Name	Cat. No.	Specification	Storage conditions	Expiration date
MaxSortin® TCR αβ beads	TL-810-1000	1mL for 1×10^9 total cells	2~8℃	9months
MaxSortin®Separation Buffer	MS-BF100	100mL	2~8℃	12months
MaxSortin® L Columns	MS-CL01	1piece	10~35℃	12months

Product Performance

Reactivity Species: Human

Endotoxin: < 2 EU/mL

Appearance: Brown liquid

Intended Use

MaxSortin® TCR αβ Isolation Magnetic Beads can be used to deplete and isolate human TCR αβ+ cells. By conjugating anti - human TCR αβ monoclonal antibody to the magnetic beads, magnetic separation is carried out after incubation with the cells to achieve the sorting of TCR αβ+ cells.

Instructions for Use

Experimental Procedure:

1.1 Resuspend the cells in PBS buffer containing 1% HSA, take a sample for counting, and transfer 1×10^7 cells to a 1.5mL Eppendorf tube. Centrifuge at 1500rpm for 5min.

1.2 Discard the supernatant, resuspend the cells with 90μL of MaxSortin® Cell Sorting Buffer, add 10μL of MaxSortin® TCR αβ Isolation Magnetic Beads, mix well and incubate in a refrigerator at 2 - 8℃ for 15min.

1.3 Place the MaxSortin® L - type Separation Column on the MACS separator (130 - 090 - 976) and rinse it twice with 1mL of cell sorting buffer.

1.4 Take out the incubated sample from the 2 - 8℃ refrigerator, add 1mL of cell sorting buffer, centrifuge at 1500rpm for 5min, and discard the supernatant.

1.5 Resuspend with 1mL of cell sorting buffer, add the sample to the L - type separation column. After it flows out naturally, add cell sorting buffer twice, 3mL each time, and collect the effluent in a 15mL tube.

1.6 Count and perform flow cytometry detection.

Precautions

The magnetic beads and cells should be thoroughly mixed during incubation to improve the sorting efficiency.

Precautions

This product is only suitable for scientific research and cannot be directly used for clinical treatment.

References

Morath, A., & Schamel, W. W. (2020). αβ and γδ T cell receptors: Similar but different. Journal of leukocyte biology, 107(6), 1045–1055. https://doi.org/10.1002/JLB.2MR1219 - 233R