MaxSortin® CD138 Isolation Kit

Product Name

English Name： MaxSortin® CD138 Isolation Kit

Packaging Specifications

Filling Volume/CatalugueNumber： 1Kit / TL-811KIT

Components:

Component Name	Cat. No.	Specification	Storage conditions	Expiration date
MaxSortin® CD138 beads	TL-811	1mL for 1×10^9 total cells	2~8°C	6months
MaxSortin®Separation Buffer	MS-BF100	100mL	2~8°C	12months
MaxSortin® L Columns	MS-CL01	1piece	10~35°C	12months

Product Performance

Reactivity Species: Human

Endotoxin: < 2 EU/mL

Appearance: Brown liquid

Intended Use

The MaxSortin® CD138 sorting magnetic beads can be used for sorting $CD138^+$ cells. By conjugating anti-human CD138 monoclonal antibody onto the magnetic beads, incubating them with cells, and then performing magnetic separation, the sorting of $CD138^+$ cells is achieved.

Instructions for Use

Experimental Procedure:

1.1 Resuspend the PBMC mixed cell sample containing about 10% U266 in PBS buffer containing 1% HSA. Take a sample for counting and transfer 1×10^7 cells into a 1.5 mL Ep tube. Centrifuge at 1500 rpm for 5 minutes.

1.2 Discard the supernatant, resuspend the cells with 90 μL of MaxSortin® Cell Sorting Buffer solution, add 10 μL of MaxSortin® CD138 sorting magnetic beads, mix well, and then incubate in a 2 - 8°C refrigerator for 15 minutes.

1.3 Place the MaxSortin® L-Type Separation Column on the MACS sorter and rinse it twice with 1 mL of MaxSortin® Cell Sorting Buffer.

1.4 Take the incubated sample out of the 2 - 8°C refrigerator, add 1 mL of MaxSortin® Cell Sorting Buffer, centrifuge at 1500 rpm for 5 minutes, and discard the supernatant.

1.5 Resuspend the sample with 1 mL of MaxSortin® Cell Sorting Buffer and add it to the MaxSortin® L-Type Separation Column. After it flows out naturally, add MaxSortin® Cell Sorting Buffer twice, 3 mL each time, to wash the cells adhering to the column.

1.6 After all the MaxSortin® Cell Sorting Buffer has flowed out, remove the MaxSortin® L-Type Separation Column from the MACS sorter and place it in a 15 mL centrifuge tube (make a mark). Add 3 mL of MaxSortin® Cell Sorting Buffer to the MaxSortin® L-Type Separation Column and expel the liquid directly

using the piston. The collected cells are $CD138^+$ cells.

1.7 Count the cells and perform flow cytometry testing.

Precautions

1.The magnetic beads need to be thoroughly mixed when incubated with cells to improve the sorting efficiency.

2.When the proportion of $CD138^+$ cells is below 3%, it is recommended to add 5 μL of magnetic beads. When the proportion of $CD138^+$ cells is above 3%, it is recommended to add 10 μL of magnetic beads.

This product cannot be used for clinical treatment.

References

1.Gao L, Liu Q, Shi Y, et.al. Application of CD138 Immunomagnetic Sorting Myeloma Cells Combined with Fluorescence in Situ Hybridization for Detecting Cytogenetic Abnormalities of Multiple Myeloma. Zhongguo Shi Yan Xue Ye Xue Za Zhi. 2017 Jun;25(3):807-812.

2.Mei Jiangang, Li Hanqing, Cao Hongqin, et al. Application Value of CD138 Magnetic Bead Sorting Combined with Interphase Fluorescence in Situ Hybridization in Genetic Diagnosis of Plasma Cell Disorders. Chinese Journal of Experimental Hematology. 2016, 024(005):1437-1442.