Technical Data Sheet

Rabbit Anti-Leu16 Monoclonal Antibody, Biotin

Product Information	
Product No.	214214
Size	100 tests
Recommended Vol. per Test	1 μL
Antibody Types	Monoclonal
Antibody Format	Whole IgG
Clone	L16-G2
Immunogen	scFv region of a CD20-specific Mouse mAb clone Leu16
Conjugate	Biotin
Host Species	Rabbit
Reactivity	Mouse
Storage Buffer	Aqueous buffered solution containing protein stabilizer and ≤0.05% ProClin 300
Storage conditions	-20°C

Description

The rabbit monoclonal antibody L16-G2 specifically binds to the scFv region of a CD20-specific mouse monoclonal antibody (mAb, clone Leu16). CD20 (cluster of differentiate 20) is a protein that is expressed on the surface of B cells, starting at the pre-B cell stage and on mature B cells in the bone marrow and in the periphery. CD20 is not expressed on hematopoietic stem cells, pro-B cells, or normal plasma cells. The scFv region of Leu16 has been used to develop CD20-specific chimeric antigen receptor (CAR) T cells utilized in clinical trials.

Preparation & Storage

- Store undiluted at -20°C. Avoid freeze/thaw cycle of the reagent.
- Shipped at 2-8°C. Store at 2-8°C for short term (3 months).
- The monoclonal antibody was purified by Protein A.
- The antibody was conjugated with Biotin under optimum conditions, and unincorporated dye was removed.

Application Notes

Application

Flow cytometry	Routinely Tested

FACS Protocol

(Optional) For Cell Sample

1. Harvest the cells and wash the cells twice by FACS buffer.
2. Count the cells number and the viability.
3. Resuspend the cell suspension to a concentration up to 1×10^6 nucleated cells per 100 μL of buffer.
4. Add 1 μL Rabbit Anti-Leu16 Monoclonal Antibody, Biotin. Mix gently and thoroughly.
5. Incubate for 25 minutes at room temperature (18-25°C).
6. Add 500 μL FACS buffer to the tube. Mix well and centrifuge at 300 g for 5 minutes at room temperature (18-25°C). Aspirate supernatant completely.
7. Repeat step 6 twice. Then add 100 μL FACS buffer and mix well.
8. Add Streptavidin PE (Product No. 700032), dead cell staining solution and additional fluorochrome conjugated antibodies into the sample. Mix gently and thoroughly.
9. Incubate for 25 minutes in the dark at room temperature (18-25°C).
10. Add 500 μL FACS buffer to the tube. Mix well and centrifuge at 300 g for 5 minutes at room temperature (18-25°C). Aspirate supernatant completely.
11. Repeat step 10 twice.
12. Add a suitable amount of FACS buffer to resuspend cell and analysis by flow cytometry.

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Caution: Antibody solutions containing ProClin 300 should be handled with care. Do not take internally and avoid all contact with the skin, mucosa and eyes.

Intellectual Product Notices

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