For Research Use Only.
Not for use in diagnostic procedures.

MBL
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MONOCLONAL ANTIBODY

Anti-Lu (BCAM/CD239) (Mouse) mAb

Code No.	Clone	Subclass	Quantity	Concentration
D295-3	10-5	Rat IgG2a	100 µL	1 mg/mL

BACKGROUND: Lutheran blood group and basal cell adhesion molecule (Lu/BCAM/CD239) is a member of the immunoglobulin superfamily. It is expressed in various tissues, including heart, lung, kidney, intestine, and skeletal muscle. Furthermore, Lu localize at the basal surface of many epithelial cells and on muscle cells adjacent to basement membranes. It suggests that Lu is a receptor for the α5 chain-containing laminins.

SOURCE: This antibody was purified from hybridoma (clone 10-5) supernatant using protein G agarose. This hybridoma was established by fusion of mouse myeloma cell P3X with Wistar rat lymphocyte immunized with mouse fetal hepatic cells.

FORMULATION: 100 µg IgG in 100 µL volume of PBS containing 50% glycerol, pH 7.2. No preservative is contained.

STORAGE: This antibody solution is stable for one year from the date of purchase when stored at -20ºC.

REACTIVITY: This antibody reacts with mouse Lu on Flow cytometry.

APPLICATION:
Flow cytometry; 20 µg/mL (final concentration)

Detailed procedure is provided in the following **PROTOCOL**.

SPECIES CROSS REACTIVITY:

Species	Human	Mouse	Rat
Cells	Not tested	Transfectant	Not tested
Reactivity on FCM		+	

INTENDED USE:
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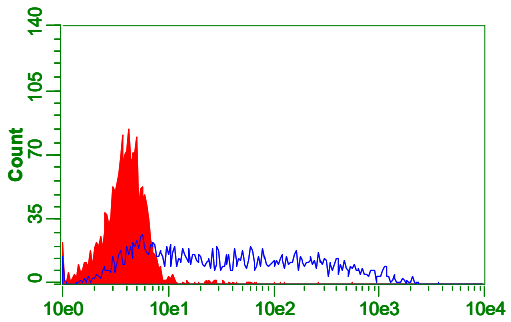
REFERENCES:
1) Moulson, C. L., *et al.*, *Dev. Dyn.* **222**, 101-114 (2001)
2) Parsons, S. F., *et al.*, *Blood* **97**, 312-320 (2001)

The descriptions of the following protocols are examples. Each user should determine the appropriate condition.



Flow cytometric detection of Lu (Mouse) on Ba/F3 transfectant
Open: D295-3
Closed: isotype control

PROTOCOL:
Flow cytometric analysis for floating cells
We usually use Fisher tubes or equivalents as reaction tubes for all steps described below.
1) Wash the cells 3 times with washing buffer [PBS containing 2% fetal calf serum (FCS)].
2) Resuspend the cells with washing buffer ($5x10^6$ cells/mL).
3) Add 100 µL of the cell suspension into each tube, and centrifuge at 500 x g for 1 minute at room temperature (20~25ºC). Remove supernatant by careful aspiration.
4) Add 10 µL of normal goat serum containing 1 mg/mL normal human IgG to the cell pellet after tapping. Mix well and incubate for 5 minutes at room temperature.
5) Add 20 µL of the primary antibody at the concentration as suggested in the **APPLICATION** diluted in the washing buffer. Mix well and incubate for 30 minutes at room temperature.
6) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.
7) Add 40 µL of 1:50 PE conjugated anti-rat IgG (MBL; code no. IM-1623) diluted with the washing buffer. Mix well and incubate for 15 minutes at room temperature.
8) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 minute at room temperature. Remove supernatant by careful aspiration.
9) Resuspend the cells with 500 µL of the washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; transfectant)

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