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Not for use in diagnostic procedures.**

MBL
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MONOCLONAL ANTIBODY

# Anti-CPM (Mouse)

| Code No. | Clone | Subclass | Quantity | Concentration |
|---|---|---|---|---|
| D293-3 | 40-1 | Rat IgG2a | 100 µL | 1 mg/mL |

**BACKGROUND:** Carboxypeptidase M (CPM) is a 62 kDa of glycosylphosphatidylinositol (GPI)-anchored plasma membrane enzyme catalyses the removal of carboxy-terminal basic amino acids, such as arginine and lysine. CPM is different from pancreatic carboxypeptidase A and B, human plasma carboxypeptidase N and carboxypeptidase H in its enzyme structurally, catalytically and immunologically. CPM is widely distributed in human tissues and often highly expressed in epithelial cells.

**SOURCE:** This antibody was purified from hybridoma (clone 40-1) 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 CPM on Flow cytometry.

**APPLICATION:**
Flow cytometry; 5 µg/mL (final concentration)

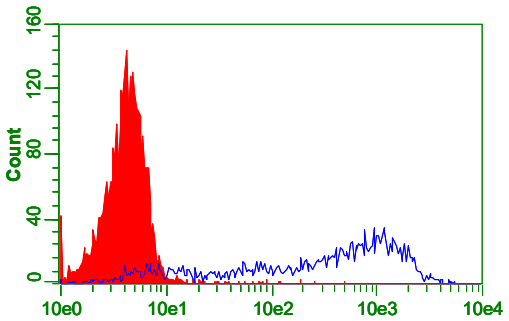
Detailed procedure is provided in the following **PROTOCOL**.

**SPECIES CROSS REACTIVITY:**

| Species | Human | Mouse | Rat |
|---|---|---|---|
| Cell | Not Tested | Transfectant | Not Tested |
| Reactivity on FCM | | + | |

**INTENDED USE:**
For Research Use Only. Not for use in diagnostic procedures.

**REFERENCES:**
1) McGwire, G. B., *et al.*, *J. Biol. Chem* **274**, 31632-31640 (1999)
2) Deddish, P. A., *et al.*, *J. Biol. Chem* **265**, 15083-15089 (1990)




***Flow cytometric detection of CPM (Mouse) on Ba/F3 transfectant***
Open: D293-3
Closed: isotype control

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

**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 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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