

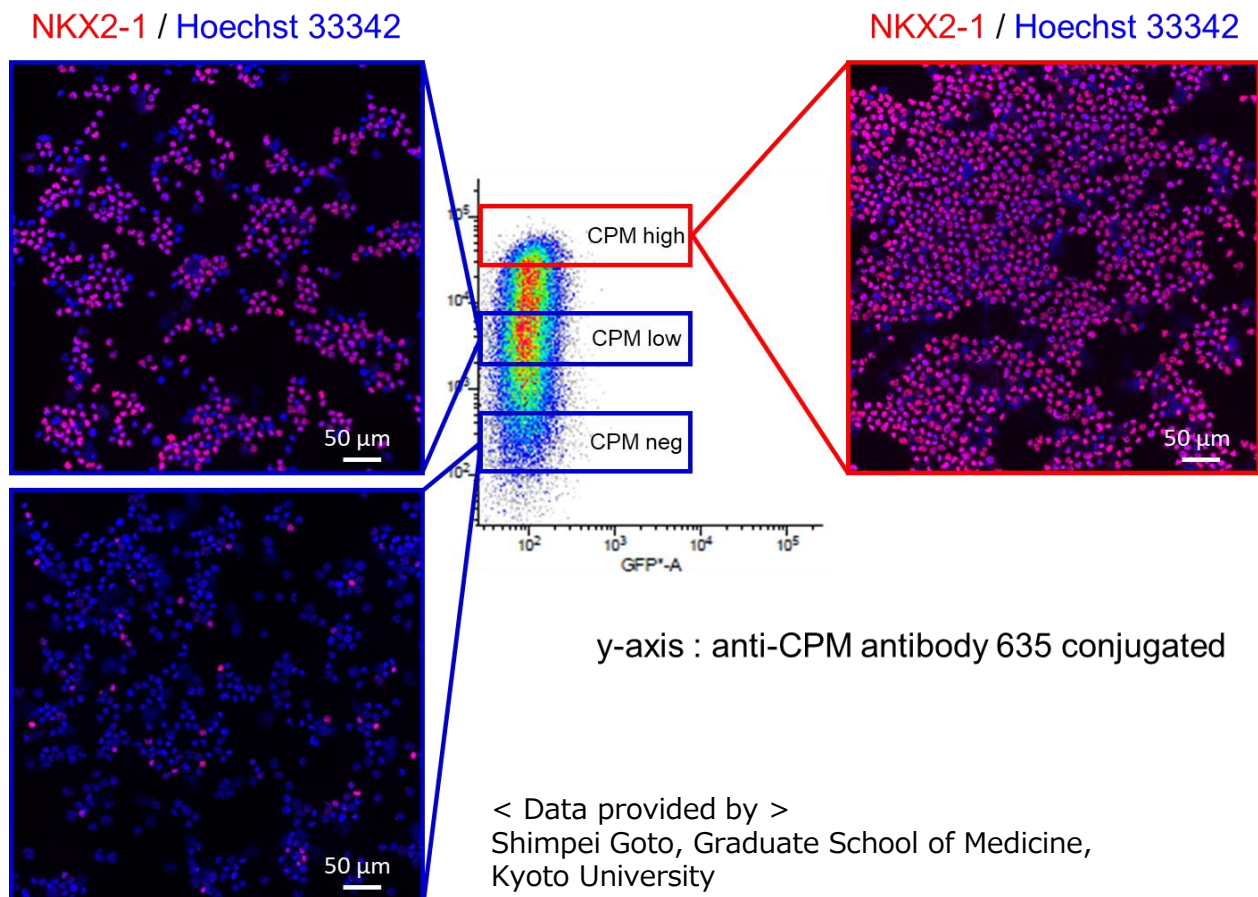
A marker for airway and alveolar progenitor cells Anti CPM, Monoclonal Antibody (WK), Red Fluorochrome(635)-conjugated

Carboxypeptidase M (CPM) is an enzyme present on the surface of the cell membrane that catalyzes cleavage of C-terminal arginine and lysine residues from polypeptides and proteins.

Recent studies have reported that CPM can be used as a marker for airway, alveolar and hepatic progenitor cells. This product is Anti CPM, Monoclonal Antibody conjugated with Red Fluorochrome (635).

Example of Use

Human iPS cells were differentiated into lung progenitor cells. The differentiated cells were dissociated, stained with this newly developed product, and sorted with flow cytometry. After sorting, immunostaining was performed on each cell population.



➔ Cell populations that highly expressed CPM also highly expressed NKX2-1, which is a marker for respiratory cells.

Cat. No.	Product Name	Grade	Pkg. Size	Storage
018-28241	Anti CPM, Monoclonal Antibody (WK), Red Fluorochrome(635)-conjugated	For Flow Cytometry	300 μL	Keep at 2-10°C

Product outline

Formulation: Phosphate buffer containing 0.05w/v% sodium azide

Concentration: 0.54 mg/mL (initial measured value)

Subclass: Mouse IgG2b

Applications (flow cytometry) : 1:10

Q&A

Q. Is there an "isotype control" for flow cytometry that supports this product?

A. The isotype of this antibody is mouse IgG2b. Wako have a track record with the following controls.

Manufacturer	Product Name	Product code	Pkg. Size	Storage Condition
R&D Systems, Inc.	Mouse IgG2B Alexa Fluor 647 Isotype Control (Clone 133303)	IC0041R	200 test	Keep at 2-10°C

References

1. Yamamoto, Y., Gotoh, S., Korogi, Y., Seki, M., Konishi, S., Ikeo, S., Sone, N., Nagasaki, T., Matsumoto, H., Muro, S., Ito, I., Hirai, T., Kohno, T., Suzuki, Y. and Mishima, M.: *Nat. Methods*, **14**, 1097 (2017).
2. Hawkins, F., Kramer, P., Jacob, A., Driver, I., Thomas, DC., McCauley, KB., Skvir, N., Crane, AM., Kurmann, AA., Hollenberg, AN., Nguyen, S., Wong, BG., Khalil, AS., Huang, SX., Guttentag, S., Rock, JR., Shannon, JM., Davis, BR. and Kotton, DN.: *J. Clin. Invest.*, **127**, 2277 (2017).
3. Konishi, S., Gotoh, S., Tateishi, K., Yamamoto, Y., Korogi, Y., Nagasaki, T., Matsumoto, H., Muro, S., Hirai, T., Ito, I., Tsukita, S. and Mishima, M.: *Stem Cell Reports*, **6**, 18 (2016).
4. Kido, T., Kouji, Y., Suzuki, K., Kobayashi, A., Miura, Y., Chem, EY., Tanaka, M. and Miyajima, A.: *Stem Cell Reports*, **5**, 508 (2015).
5. Gotoh, S., Ito, I., Nagasaki, T., Yamamoto, Y., Konishi, S., Korogi, Y., Matsumoto, H., Muro, S., Hirai, T., Funato, M., Mae, S., Toyoda, T., Sato-Otsubo, A., Ogawa, S., Osafune, K. and Mishima, M.: *Stem Cell Reports*, **3**, 394 (2014).

Related Products

Antibody without Fluorochrome

Cat. No.	Product Name	Grade	Pkg. Size	Storage
014-27501	Anti CPM, Monoclonal Antibody (WK)	For Flow Cytometry	100 µL	Keep at -20°C

*For purchasing and/or inquiring about the above products, please contact R&D Systems Inc.

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