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

Anti-Podoplanin (Mouse) mAb -Alexa Fluor®488

CODE No. D321-A48

CLONALITY Monoclonal
CLONE PMab-1
ISOTYPE Rat IgG2a κ
QUANTITY 100 µL, 1 mg/mL

SOURCE Purified IgG from hybridoma supernatant
FORMURATION PBS containing 1% BSA and 0.09% NaN_3
*Azide may react with copper or lead in plumbing system to form explosive metal azides. Therefore, always flush plenty of water when disposing materials containing azide into drain.
STORAGE This antibody solution is stable for one year from the date of purchase when stored at 4°C.

APPLICATIONS

Immunocytochemistry	5 µg/mL
Flow cytometry	5 µg/mL

SPECIES CROSS REACTIVITY on FCM

Species	Human	Mouse	Rat	Hamster
Cell	Not tested	Transfectant	Not tested	Not tested
Reactivity		+		

Entrez Gene ID 14726 (Mouse)

REFERENCES

1) Kaji, C., *et al.*, *Acta Histochem Cytochem.* **45**, 227-237 (2012)
2) Kato, Y., *et al.*, *Biochem. Biophys. Res. Commun.* **349**, 1301-1307 (2006)
3) Kaneko, M. K., *et al.*, *FEBS Lett.* **581**, 331-336 (2007)
4) Kato, Y., *et al.*, *Cancer. Sci.* **99**, 54-61 (2008)
5) Ogasawara, S., *et al.*, *Hybridoma* **27**, 259-267 (2008)
6) Kato, Y., *et al.*, *Nucl. Med. Biol.* **37**, 785-794 (2010)

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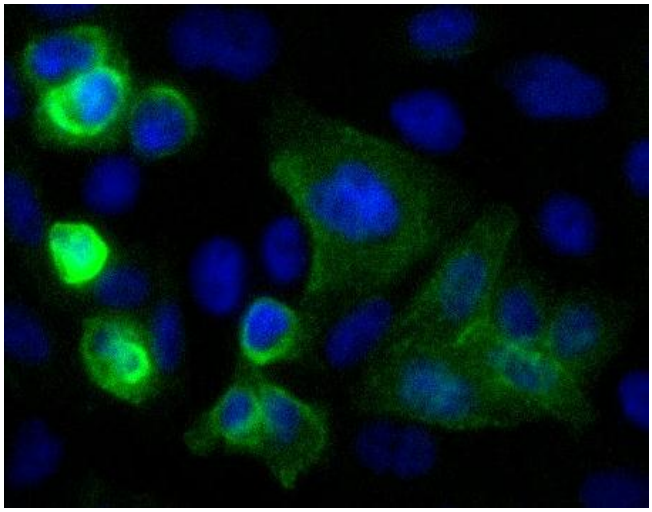
RELATED PRODUCTS

D321-A48	Anti-Podoplanin (Mouse) mAb -Alexa Fluor®488 (PMab-1)
D321-3	Anti-Podoplanin (Mouse) mAb (PMab-1)
D190-3	Anti-Aggrus (Podoplanin) (Mouse) mAb (8F11)
D190-4	Anti-Aggrus (Podoplanin) (Mouse) mAb -FITC (8F11)
D189-1	Anti-Aggrus (Podoplanin) (Human) mAb (YM-1)
D320-3	Anti-Podoplanin (Human) mAb (NZ-1.2)
D320-A48	Anti-Podoplanin (Human) mAb -Alexa Fluor®488 (NZ-1.2)

Immunocytochemistry

1) Spread the cells on a glass slide, then incubate in a CO_2 incubator for one night.
2) Remove the culture supernatant by careful aspiration.
3) Fix the cells by immersing the slide in 4% paraformaldehyde (PFA)/PBS for 10 min. at room temperature (20~25^{o}C).
4) Wash the slide 2 times in PBS.
5) Add Blocking reagent (MBL; code no. MTG-001) onto the cells and incubate for 5 min. at room temperature.
6) Tip off the Blocking Reagent and add 200 μL of the primary antibody diluted with PBS as suggested in the **APPLICATIONS** onto the cells and incubate for 30 min. at room temperature. (Optimization of antibody concentration or incubation condition is recommended if necessary.)
7) Wash the slide 2 times with PBS.
8) Wipe excess liquid from the slide but take care not to touch the cells. Never leave the cells to dry.
9) Counterstain with DAPI for 5 min. at room temperature.
10) Wash the slide 1 time with PBS.
11) Promptly add mounting medium onto the slide, then put a cover slip on it.

(Positive control for Immunocytochemistry; transfectant)

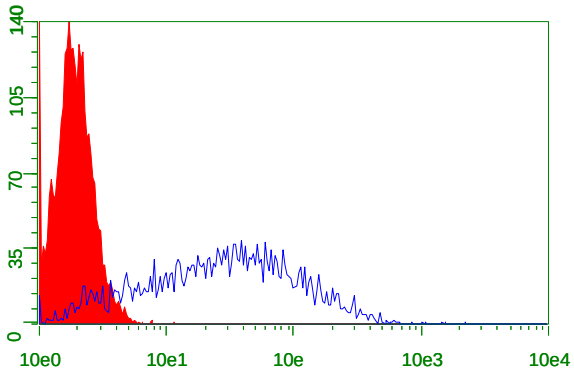


Immunocytochemical detection of mouse Podoplanin in CHO transfectant
Green: D321-A48
Blue: DAPI

Flow cytometric analysis

1) Wash the cells (5 x 10^5 cells/sample) 1 time with 1 mL of Washing buffer (PBS containing 2% fetal calf serum (FCS)).
2) Add 100 µL of 4% paraformaldehyde (PFA)/PBS to the cell pellet after tapping. Mix well, then fix the cells for 10 min. at room temperature.
3) Wash the cells 2 times with 1 mL of Washing buffer.
4) Add 20 µL of Blocking reagent (MBL; code no. MTG-001) to the cell pellet after tapping. Mix well and incubate for 5 min. at room temperature.
5) Add 40 µL of the primary antibody at the concentration as suggested in the **APPLICATIONS** diluted in the Washing buffer. Mix well and incubate for 30 min. at room temperature.
6) Wash the cells 2 times with 1 mL of Washing buffer.
7) Resuspend the cells with 500 µL of the Washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; transfectant)



Flow cytometric detection of mouse Podoplanin in CHO transfectant

Open: D321-A48
Closed: isotype control (M081-A48)