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



Anti-HA-tag mAb-Alexa Fluor® 488

CODE No. M180-A48

CLONALITY Monoclonal
CLONE TANA2
ISOTYPE Mouse IgG2b

ISOTYPE Mouse IgG2b κ QUANTITY 100 μ L, 1 mg/mL

SOURCE Purified IgG from hybridoma supernatant

IMMUNOGEN KLH conjugated synthetic peptide, YPYDVPDYA (HA-tag)

REACTIVITY This antibody reacts with N-terminal and C-terminal HA-tagged proteins.

FORMULATION PBS containing 1% BSA and 0.1% ProClin 150.

STORAGE This antibody solution is stable for one year from the date of purchase when stored at 4°C.

APPLICATIONS-CONFIRMED

Immunocytochemistry1 μg/mLFlow cytometry1 μg/mL

RELATED PRODUCTS

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LABEL LICENSES:

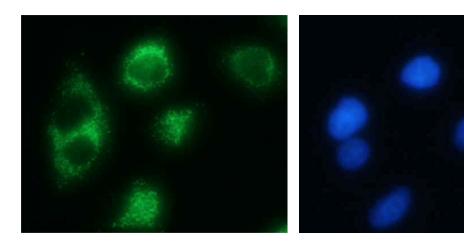
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The descriptions of the following protocols are examples. Each user should determine the appropriate condition.

Immunocytochemistry

- 1) Spread the cells in the nutrient condition on a glass slide, then incubate in a CO₂ 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°C).
- 4) Prepare a wash container such as a 500 mL beaker with a magnetic stirrer. Then wash the fixed cells on the glass slide by soaking the slide with a plenty of PBS in the wash container for 5 min. Take care not to touch the cells. Repeat another wash once more.
- 5) Immerse the slide in 0.2% Triton X-100/PBS for 10 min. at room temperature.
- 6) Wash the slide in a plenty of PBS as in the step 4).
- 7) Cover each cell with normal goat serum for 5 min. at room temperature.
- 8) Add 200 μL of the primary antibody diluted with 2% fetal calf serum (FCS)/PBS as suggested in the **APPLICATIONS** onto the cells and incubate for 1 hr. at room temperature. (Optimization of antibody concentration or incubation condition is recommended if necessary.)
- 9) Wash the slide in a plenty of PBS as in the step 4).
- 10) Wipe excess liquid from slide but take care not to touch the cells. Never leave the cells to dry.
- 11) Counter stain with DAPI for 5 min. at room temperature.
- 12) Wash the slide in a plenty of PBS as in the step 4).
- 13) Promptly add mounting medium onto the slide, then put a cover slip on it.



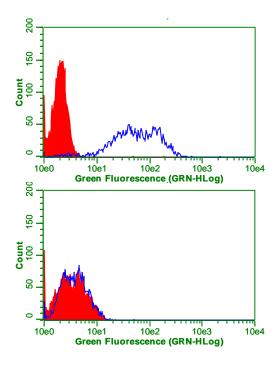
Immunocytochemical detection of HA-tagged protein in HeLa

Green: M180-A48

Blue: DAPI

Flow cytometric analysis for adherent cells

- 1) Detach the cells from culture dish.
- 2) Wash the cells 3 times with 1 mL of washing buffer [PBS containing 2% fetal calf serum (FCS)].
- 3) Add 200 μ L of 4% paraformaldehyde (PFA) to the cell pellet after tapping. Mix well, then fix the cells for 10 min. at room temperature.
- 4) Wash the cells 2 times with 1 mL of washing buffer.
- 5) Add 200 μL of PBS containing 0.2% Triton X-100 to the cell pellet after tapping. Mix well, then permeabilize the cells for 10 min. at room temperature.
- 6) Wash the cells 1 time with 1 mL of washing buffer.
- 7) Resuspend the cells with washing buffer (5 x 10⁶ cells/mL).
- 8) Add 100 μ L of the cell suspension into each tube, and centrifuge at 500 x g for 1 min. at room temperature (20~25°C). Remove supernatant by careful aspiration.
- 9) Add 20 μL of Clear Back (human Fc receptor blocking reagent, MBL; code no. MTG-001) to the cell pellet after tapping. Mix well and incubate for 5 min. at room temperature.
- 10) 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 20 min. at room temperature.
- 11) Add 1 mL of the washing buffer followed by centrifugation at 500 x g for 1 min. at room temperature. Remove supernatant by careful aspiration. Repeat another wash once more.
- 12) Resuspend the cells with 500 μL of the washing buffer and analyze by a flow cytometer.



Flow cytometric detection of HA-tagged protein in HeLa

Open: M180-A48

Closed: Isotype control (M077-A48)

Upper: HA-tagged protein in HeLa Lower: Parental cell (HeLa)