

**MONOCLONAL ANTIBODY**

# Anti-MANSC1 (Human) mAb

Code No.	Clone	Subclass	Quantity	Concentration
W039-3	1B4A7D	Mouse IgG2a $\kappa$	100 $\mu$ L	1 mg/mL

**BACKGROUND:** MANSC domain-containing protein 1 (MANSC1) is a putative type I integral plasma membrane protein. This protein has a MANEC domain, which may play a role in the formation of protein complexes involving various protease activators and inhibitors. Downregulation of MANSC1 is reported in prostate cancer. However, the molecular function of MANSC1 has not yet been defined.

**SOURCE:** This antibody was purified from hybridoma culture supernatant by Protein A affinity column chromatography.

**IMMUNOGEN:** Human MANSC1 expressed Ba/F3 transfectants generated from SST-REX (signal sequence trap by retrovirus-mediated expression screening).

**FORMULATION:** 100  $\mu$ g IgG in 100  $\mu$ L 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  $-20^{\circ}\text{C}$ .

**REACTIVITY:** This antibody reacts with human MANSC1 on Flow cytometry.

**APPLICATIONS:**

- Flow cytometry; 1-10  $\mu$ g/mL
- Western blotting; Not tested
- Immunoprecipitation; Not tested
- Immunohistochemistry; Not tested
- Immunocytochemistry; Not tested

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

**INTENDED USE:**

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

**Entrez Gene ID:**

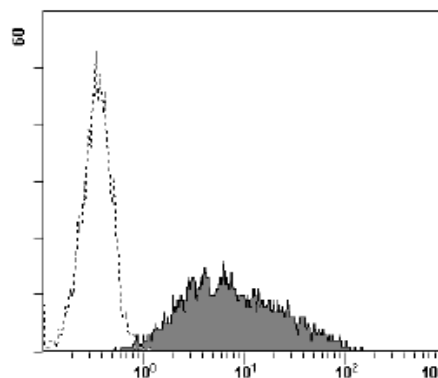
54682 (Human)

**REFERENCES:**

- 1) Montpetit, A., *et al.*, *Eur. J. Hum. Genet.* **10**, 62-71 (2002)
- 2) Kojima, T. and Kitamura, T., *Nat. Biotechnol.* **17**, 487-490 (1999)

**SPECIES CROSS REACTIVITY:**

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



**Flow cytometric analysis of human MANSC1 expression on Ba/F3 transfectant.** Open histograms indicate the reaction of isotypic control to the cells. Shaded histograms indicate the reaction of W039-3 to the cells.

**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) and 0.05%  $\text{NaN}_3$ ].
- 2) Resuspend the cells with washing buffer ( $2.5 \times 10^6$  cells/mL).
- 3) Add 200  $\mu$ L of cell suspension into each tube. And centrifuge at 500 x g for 1 minute at room temperature ( $20\sim 25^{\circ}\text{C}$ ). Remove supernatant by careful decantation.
- 4) Add 20  $\mu$ L 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 minutes at room temperature.
- 5) Add 50  $\mu$ L of the primary antibody at the concentration as suggest in the **APPLICATIONS** 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 decantation.

- 7) Add 50  $\mu$ L of 1:200 anti-mouse IgG-PE (Beckman Coulter; code no. IM0855) diluted with the washing buffer. Mix well and incubate for 30 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 decantation.
- 9) Resuspend the cells with 500  $\mu$ L of the washing buffer and analyze by a flow cytometer.

(Positive control for Flow cytometry; transfectant)

#### RELATED PRODUCTS:

- |         |                                                 |
|---------|-------------------------------------------------|
| W005-3  | Anti-BTN2A1 (Human) mAb                         |
| W008-3  | Anti-Carboxypeptidase D (Human) mAb             |
| W010-3  | Anti-CCDC107 (Human) mAb                        |
| W011-3  | Anti-Dystroglycan (Human) mAb                   |
| W017-3  | Anti-EphA2 (Human) mAb                          |
| W029-3  | Anti-IGFBP1 (Human) mAb                         |
| W031-3  | Anti-IGFBP6 (Human) mAb                         |
| W039-3  | Anti-MANSC1 (Human) mAb                         |
| W041-3  | Anti-Neuroplastin (Human) mAb                   |
| W046-3  | Anti-CD201 (EPCR) (Human) mAb                   |
| W049-3  | Anti-QSOX1 (Human) mAb                          |
| W050-3  | Anti-RECK (Human) mAb                           |
| W052-3  | Anti-Osteopontin (SPP1) (Human) mAb             |
| W072-3  | Anti-CD358 (DR6) (Human) mAb                    |
| W074-3  | Anti-CRELD1 (Human) mAb                         |
| W077-3  | Anti-GRK5 (Human) mAb                           |
| W080-3  | Anti-ADAMTS1 (Human) mAb                        |
| W086-3  | Anti-LYPD3 (C4.4A) (Human) mAb                  |
| W089-3  | Anti-C11orf24 (Human) mAb                       |
| W109-3  | Anti-TMED2 (Human) mAb                          |
| W111-3  | Anti-DLL4 (Human) mAb                           |
| W117-3  | Anti-TINAGL1 (Human) mAb                        |
| W124-3  | Anti-GPR56 (Human) mAb                          |
| W125-3  | Anti-GPR56 (Human) mAb                          |
| W128-3  | Anti-CD318 (CDCP1) (Human) mAb                  |
| W147-3  | Anti-TYRO3 (Human) mAb                          |
| W158-3  | Anti-HEXA (Human) mAb                           |
| W164-3  | Anti-RHBDD3 (Human) mAb                         |
| W172-3  | Anti-CD172a (SIRP $\alpha$ ) (Human) mAb        |
| W181-3  | Anti-Apolipoprotein D (Human) mAb               |
| W194-3  | Anti-FAM171A1 (Human) mAb                       |
| W253-3  | Anti-Glypican 1 (Human) mAb                     |
| W321-3  | Anti-FGFRL1 (Human) mAb                         |
| W357-3  | Anti-CD105 (Endoglin) (Human) mAb               |
| W358-3  | Anti-CD300A (Human) mAb                         |
| W359-3  | Anti-CD300C (Human) mAb                         |
| M076-3  | Mouse IgG2a (isotype control)                   |
| MTG-001 | Clear Back (Human Fc receptor blocking reagent) |