

MONOCLONAL ANTIBODY

# Anti-ADAMTS1 (Human) mAb

| Code No. | Clone  | Subclass             | Quantity    | Concentration |
|----------|--------|----------------------|-------------|---------------|
| W080-3   | 2B9CB6 | Mouse IgG2a $\kappa$ | 100 $\mu$ L | 1 mg/mL       |

**BACKGROUND:** A disintegrin and metalloproteinase with thrombospondin motifs 1 (ADAMTS1) is a member of the ADAMTS protein family. ADAMTS1 is a secreted protein that has an N-terminal signal peptide, a zinc metalloprotease domain containing a zinc-binding site, and a cysteine-rich region containing two putative disintegrin loops. It is located in the extracellular matrix and functions as an active metalloprotease that may be associated with various inflammatory processes. Overexpression of ADAMTS1 is found in metastatic carcinoma.

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

**IMMUNOGEN:** Human ADAMTS1 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 ADAMTS1 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:**

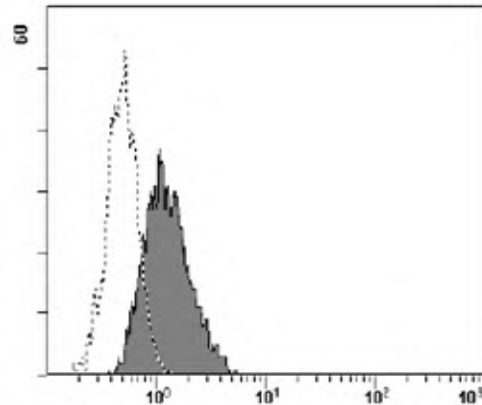
9510 (Human)

**REFERENCES:**

- 1) Gerhardt, S., *et al.*, *J. Mol. Biol.* **373**, 891-902 (2007)
- 2) Cal, S., *et al.*, *Gene* **283**, 49-62 (2002)
- 3) Kojima, T. and Kitamura, T., *Nat. Biotechnol.* **17**, 487-490 (1999)
- 4) Kuno, K., *et al.*, *J. Biol. Chem.* **272**, 556-562 (1997)

**SPECIES CROSS REACTIVITY:**

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



**Flow cytometric analysis of human ADAMTS1 expression on Ba/F3 transfectant.** Open histograms indicate the reaction of isotypic control to the cells. Shaded histograms indicate the reaction of W080-3 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)

|         |   |
|---------|---|
| 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) |

## RELATED PRODUCTS: