



## Anti Tra-1-60 Mouse Monoclonal Antibody

### Product Information

**Catalog Number** ASA-0160

**Description** This Anti-Tra-1-60 is a monoclonal antibody raised against a cell surface antigen of human embryonal carcinoma (EC) cells <sup>[1]</sup>. The Tra-1-60 epitope is also found on human embryonic stem (ES) cells and primordial germ cells, and anti-Tra-1-60 serves as a serum marker in patients with germ cell tumors <sup>[2]</sup>. Both the Tra-1-60 and Tra-1-81 monoclonal antibodies recognize antigens that are associated with a pericellular matrix proteoglycan. Tra-1-60 reacts with a sialidase-sensitive epitope whilst Tra-1-81 reacts with an unknown epitope of the same molecule. The epitopes for both Tra-1-81 and Tra-1-60 are not confined to human EC cells, but are also found on several neoplastic and normal tissues, though in a different pattern for each antibody.

**Size** 800  $\mu$ L

**Antigen** Human Tra-1-60

**Classification** Monoclonal antibody

**Host** Mouse

**Isotype** IgM

**Reactivity** Human

**Application** ICC, IHC, FC, WB, IP

**Concentration** Ready-to-use for ICC

**Shipping** Dry ice

**Storage and Stability** Store at -20°C. Stable for 6 months at -20°C. Avoid freeze-thaw cycles.

**Safety Precaution** **PLEASE READ BEFORE HANDLING ANY FROZEN VIALS.** Please wear the appropriate Personal Protective Equipment (lab coat, thermal gloves, safety goggles and a face shield) when handling the vials. Handle the frozen vials with due caution.

**Restricted Use** This product is for research use only and not intended for human or animal diagnostic or therapeutic uses.

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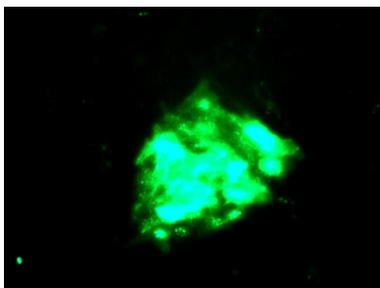


Fig. Anti-Tra-1-60 staining of human ES cells.

## Protocol

1. Fix cells on a cover slip for 1 hour.
2. Wash with PBS for 5 minutes (3 times).
3. Permeabilize the cells for 30 minutes.
4. Block in blocking solution for 1 hour.
5. Pipette 30  $\mu$ L 1<sup>o</sup> antibody on the parafilm slide, put the cover slip face-down on it. Place the parafilm in a humidified chamber, 4<sup>o</sup>C / overnight.
6. Aspirate the 1st antibody and wash cells with PBS, 10 minutes x 2.
7. Aspirate PBS. Add 1 drop (or 45  $\mu$ L) of 2<sup>o</sup> antibody (Goat anti-mouse) to each slide, incubate for 1 hour in the dark.
8. Wash cells with PBS for 10 minutes.
9. Aspirate PBS. Add 1 drop (or 45  $\mu$ L) of DNA staining solution on cell slide for 8 minutes.
10. Wash cell with PBS in the dark.
11. Place one drop (or 20  $\mu$ L) of mounting solution to labeled glass slide. Put the cell cover slip facing down in the mounting solution.
12. Take images immediately, or the slide can be stored at 4<sup>o</sup>C for up to 7 days.

## References

1. Andrews PW, Banting G, Damjanov I, Arnaud D, Avner P. (1984) Three monoclonal antibodies defining distinct differentiation antigens associated with different high molecular weight polypeptides on the surface of human embryonal carcinoma cells. *Hybridoma* **3(4)**: 347-361.
2. Marrink J, Andrews PW, van Brummen PJ, de Jong HJ, Sleijfer DT, Schraffordt Koops H, Oosterhuis JW. (1991) TRA-1-60: a new serum marker in patients with germ-cell tumors. *Int J Cancer* **49(3)**: 368-372.