# Human TRA-1-60(R) Neuraminidase Resistant Epitope

Monoclonal Mouse IgM Clone # TRA-1-60

Tools for Cell Biology Research™ Catalog Number: MAB4770

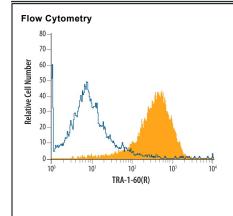
DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human TRA-1-60(R).
Source	Monoclonal Mouse IgM Clone # TRA-1-60
Purification	lgM-specific Affinity-purified from hybridoma culture supernatant
Immunogen	2102Ep human embryonal carcinoma cell line
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

### **APPLICATIONS**

Please Note: Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website

	Recommended Concentration	Sample
Flow Cytometry	2.5 μg/10 <sup>6</sup> cells	See Below
Immunocytochemistry	8-25 μg/mL	See Below

### DATA

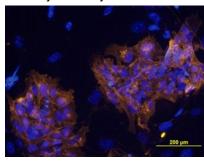


**R&D Systems** 

### Detection of TRA-1-60 in **BG01V Human Cells by Flow** Cytometry

BG01V human embryonic stem cells were stained with Mouse Anti-Human TRA-1-60 Neuraminidase Resistant Epitope Monoclonal Antibody (Catalog # MAB4770, filled histogram) or isotype control antibody followed by Phycoerythrin-conjugated Anti-Mouse IgM Secondary Antibody (Catalog # F0116).

# Immunocytochemistry



#### TRA-1-60 in BG01V Human Stem Cells.

TRA-1-60 was detected in immersion fixed BG01V human embryonic stem cells using Mouse Anti-Human TRA-1-60 Neuraminidase Resistant Epitope Monoclonal Antibody (Catalog # MAB4770) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557conjugated Anti-Mouse IgM Secondary Antibody (yellow; Catalog # NL019) and counterstained with DAPI (blue). View our protocol for Fluorescent ICC Staining of Cells on Coverslips.

# PREPARATION AND STORAGE

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Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

\*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

#### Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

## BACKGROUND

TRA-1-60 is a monoclonal antibody raised against a cell surface antigen of human embryonal carcinoma (EC) cells (1). The TRA-1-60 epitope is also found on human embryonic stem (ES) cells and primordial germ cells, and TRA-1-60 serves as a serum marker in patients with germ cell tumors (2-4). Investigation into the identity of the TRA-1-60 epitope demonstrated that it is a carbohydrate carried by a cell surface, sialylated, keratan sulfate proteoglycan (5). Subsequent evidence implicated podocalyxin as a carrier for the TRA-1-60 epitope (6).

### References:

- Andrews, P. et al. (1984) Hybridoma 3:347. 1.
- 2. Thomson, J. et al. (1998) Science 282:1145.
- 3. Giwercman, A. et al. (1993) Cancer 72:1308.
- Marrink, J. et al. (1991) Int. J. Cancer 49:368.
- Badcock, G. et al. (1999) Cancer Res. 59:4715. 5.
- Schopperle, W. and W. DeWolf (2007) Stem Cells 25:723. 6.

