

# Human TRA-1-60(R) Neuraminidase Resistant Epitope Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgM Clone # TRA-1-60  
Catalog Number: FAB4770G

DESCRIPTION	
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TRA-1-60(R).
<b>Source</b>	Monoclonal Mouse IgM Clone # TRA-1-60
<b>Purification</b>	IgM-specific Affinity-purified from hybridoma culture supernatant
<b>Immunogen</b>	2102Ep human embryonal carcinoma cell line
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS		
<i>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.</i>		
	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	BG01V human embryonic stem cells

PREPARATION AND STORAGE	
<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

**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:**

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

**PRODUCT SPECIFIC NOTICES**  
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