

**DESCRIPTION**

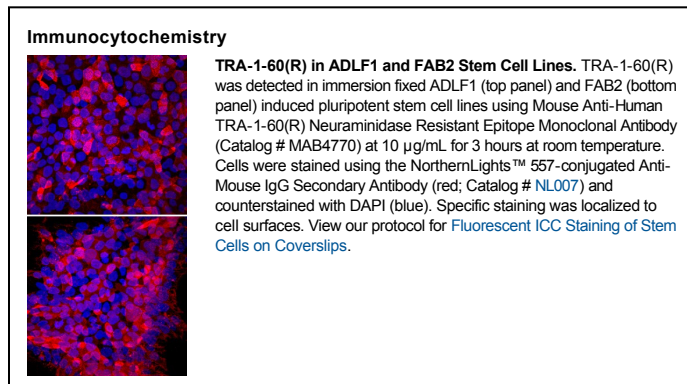
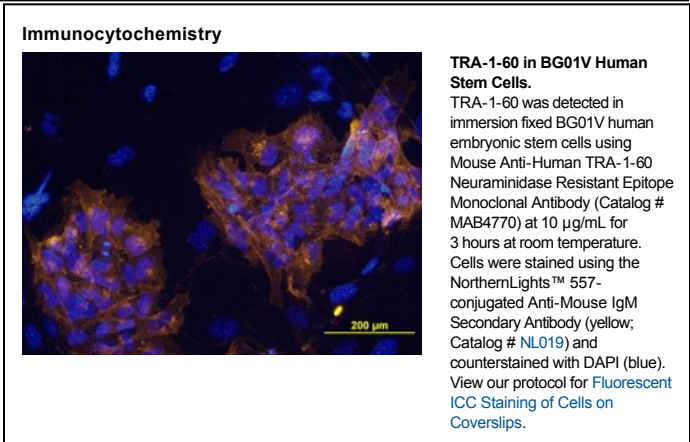
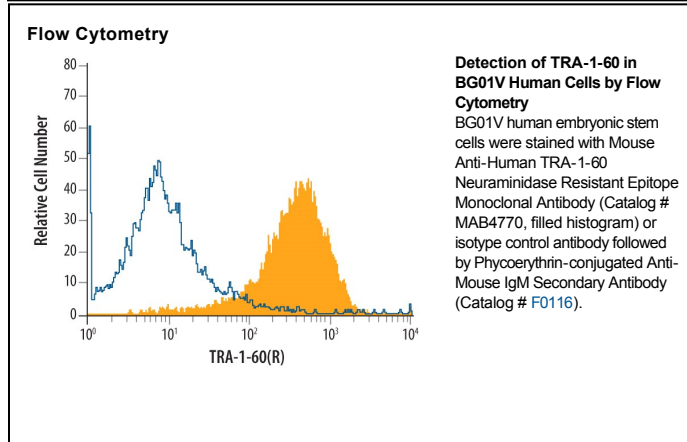
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TRA-1-60(R).
<b>Source</b>	Monoclonal Mouse IgM Clone # TRA-1-60
<b>Purification</b>	IgM-specific Affinity-purified from hybridoma culture supernatant
<b>Immunogen</b>	2102Ep human embryonal carcinoma cell line
<b>Formulation</b>	Lyophilized 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25 µg/10 <sup>6</sup> cells	See Below
<b>Immunocytochemistry</b>	8-25 µg/mL	See Below
<b>CyTOF-reported</b>	This clone has been commercially reported for use in CyTOF®. Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

**DATA**



**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>• 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>• 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>• 6 months, -20 to -70 °C under sterile conditions after reconstitution.</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.