

**DESCRIPTION**

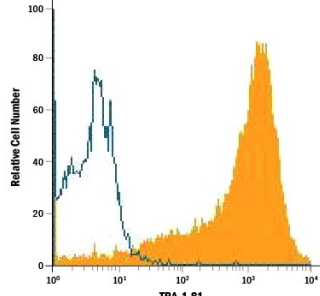
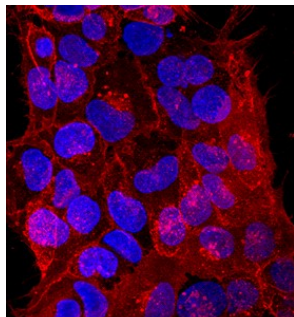
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human TRA-1-81 in flow cytometry.
<b>Source</b>	Monoclonal Mouse IgM Clone # TRA-1-81
<b>Purification</b>	IgM-specific Affinity-purified from hybridoma culture supernatant
<b>Immunogen</b>	Human embryonal carcinoma cell line 2102Ep
<b>Formulation</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 either lyophilized or 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-ready</b>	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

**DATA**

<p><b>Flow Cytometry</b></p>  <p><b>Detection of TRA-1-81 in BG01V Human Cells by Flow Cytometry.</b> BG01V human embryonic stem cells were stained with Mouse Anti-Human TRA-1-81 Monoclonal Antibody (Catalog # MAB8495, filled histogram) or mouse IgM isotype control antibody (open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgM Secondary Antibody (Catalog # F0117).</p>	<p><b>Immunocytochemistry</b></p>  <p><b>TRA-1-81 in BG01V Human Embryonic Stem Cells.</b> TRA-1-81 was detected in immersion fixed BG01V human embryonic stem cells using Mouse Anti-Human TRA-1-81 Monoclonal Antibody (Catalog # MAB8495) at 10 µg/mL for 3 hours at room temperature. Cells were stained using the NorthernLights™ 557-conjugated Anti-Mouse IgM Secondary Antibody (red; Catalog # NL019) and counterstained with DAPI (blue). Specific staining was localized to cell membrane. View our protocol for <a href="#">Fluorescent ICC Staining of Stem Cells on Coverslips</a>.</p>
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**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**

The TRA-1-81 antibody reacts with a high-molecular-mass carbohydrate epitope on the surface of human embryonal carcinoma (EC), embryonic germ (EG), embryonic stem (ES), and induced pluripotent stem (iPS) cells. TRA-1-81 is an epitope expressed on podocalyxin, also known as Podocalyxin-Like Protein-1 (PCLP1 or PODXL), a type I transmembrane glycoprotein.