

**DESCRIPTION**

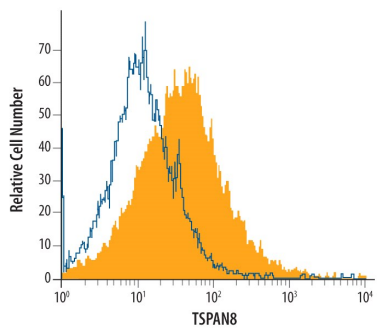
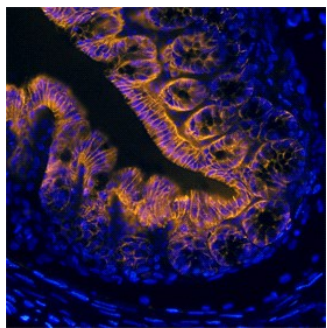
<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse TSPAN8 transfectants but not the parental cell line in flow cytometry.
<b>Source</b>	Monoclonal Rat IgG <sub>2B</sub> Clone # 657909
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	CHO Chinese hamster ovary cell line transfected with mouse TSPAN8
<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>	2.5 µg/10 <sup>6</sup> cells	See Below
<b>Immunohistochemistry</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 TSPAN8 in CMT-93 Mouse Cell Line by Flow Cytometry.</b> CMT-93 mouse rectal carcinoma cell line was stained with Rat Anti-Mouse TSPAN8 Monoclonal Antibody (Catalog # MAB6524, filled histogram) or isotype control antibody (Catalog # MAB0061, open histogram), followed by Allophycocyanin-conjugated Anti-Rat IgG Secondary Antibody (Catalog # F0113).</p>	<p><b>Immunohistochemistry</b></p>  <p><b>TSPAN8 in Mouse Intestine.</b> TSPAN8 was detected in perfusion fixed frozen sections of mouse intestine using Rat Anti-Mouse TSPAN8 Monoclonal Antibody (Catalog # MAB6524) at 8 µg/mL overnight at 4 °C. Tissue was stained using the Northern-Lights™ 557-conjugated Anti-Rat IgG Secondary Antibody (yellow; Catalog # NL013) and counterstained with DAPI (blue). Specific staining was localized to membranes of epithelial cells. View our protocol for Fluorescent IHC Staining of Frozen Tissue Sections.</p>
--	---

**PREPARATION AND STORAGE**

<b>Reconstitution</b>	Sterile PBS to a final concentration of 0.5 mg/mL.
<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**

Tetraspanin-8 (TSPAN8), also known as TM4SF3 and human tumor-associated antigen CO-0029, is a member of the transmembrane 4 (tetraspanin) superfamily. It is a cell surface 27 - 34 kDa protein with intracellular N- and C-termini, 4 transmembrane segments and a large extracellular loop (LEL) domain from aa 106-206. TSPAN8 is involved in integrin-mediated cell motility, metastasis, cell proliferation and differentiation, and is over-expressed in carcinomas including hepatocellular carcinoma and colon cancer. Polymorphisms have variably been associated with type II diabetes, bipolar disorder and schizophrenia. Human TSPAN8 shares 70% aa sequence identity with mouse and rat TSPAN8.