

DESCRIPTION

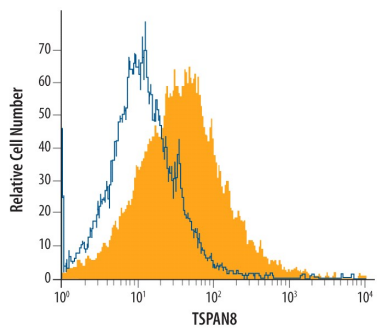
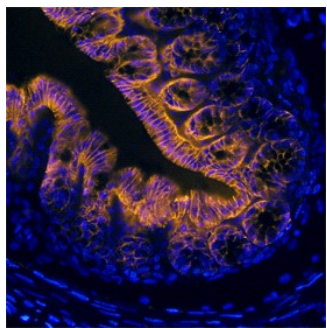
Species Reactivity	Mouse
Specificity	Detects mouse TSPAN8 transfectants but not the parental cell line in flow cytometry.
Source	Monoclonal Rat IgG _{2B} Clone # 657909
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	CHO Chinese hamster ovary cell line transfected with mouse TSPAN8
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 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.

	Recommended Concentration	Sample
Flow Cytometry	2.5 µg/10 ⁶ cells	See Below
Immunohistochemistry	8-25 µg/mL	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA

<p>Flow Cytometry</p> 	<p>Detection of TSPAN8 in CMT-93 Mouse Cell Line by Flow Cytometry. 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>Immunohistochemistry</p>  <p>TSPAN8 in Mouse Intestine. 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>
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PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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. <ul style="list-style-type: none"> ● 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

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.