

DESCRIPTION	
Species Reactivity	Human
Specificity	Detects human TSPAN1 in direct ELISAs.
Source	Monoclonal Mouse IgG ₃ Clone # 819202
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human TSPAN1 Met1-Gln241 Accession # O60635
Conjugate	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
Formulation	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>		
	Recommended Concentration	Sample
Flow Cytometry	0.25-1 µg/10 ⁶ cells	HT-29 human colon adenocarcinoma cell line and HEK293 human embryonic kidney cell line transfected with human TSPAN1

PREPARATION AND STORAGE	
Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. ● 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Tetraspanins (TSPAN family) are small integral proteins that contain four transmembrane domains with two different and well characterized extracellular domains. Tetraspanins are found on the plasma membrane and within various intracellular organelles and granules in nearly all cell and tissue types. They interact with one another and with other transmembrane molecules, including integrins, generating a 'web' of interactions believed to control cell and membrane trafficking and compartmentalization. Tetraspanin-1 (TSPAN1), a 241 amino acid protein, interacts with the thiamine transporter-1 (THTR-1, SLC19A2) in human intestinal epithelial cells, linking TSPAN1 to the regulation of thiamine uptake. TSPAN1 has been found to be expressed in gastric, ovarian, colon, and other carcinomas.

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