

DESCRIPTION

Species Reactivity	Human
Specificity	Stains human TSPAN7 transfectants but not irrelevant transfectants in flow cytometry.
Source	Monoclonal Mouse IgG _{2A} Clone # 482618
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with human TSPAN7 Accession # P41732
Conjugate	Alexa Fluor 700 Excitation Wavelength: 675-700 nm Emission Wavelength: 723 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

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	0.25-1 µg/10 ⁶ cells	HEK293 human embryonic kidney cell line transfected with human TSPAN7 and eGFP

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. <ul style="list-style-type: none"> 12 months from date of receipt, 2 to 8 °C as supplied.

BACKGROUND

Tetraspanin-7 (aka TSPAN7, TALLA-1, TM4SF2 and CD231) is a 249 aminoacids (aa) multi-pass membrane protein. Tetraspanin proteins regulate morphology, signaling and trafficking processes by interaction and association with proteins in tetraspanin enriched microdomains (TEMs). It has been proposed that tetraspanins interact with integrins to affect cell migration, probably by modulation or compartmentalization of integrin signaling. TSPAN7 has been found to be upregulated in myeloma development and described as a prognostic marker of renal cell carcinoma. Mutations in TSPAN7 are also implicated in some forms of X-linked intellectual disability.

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