

DESCRIPTION

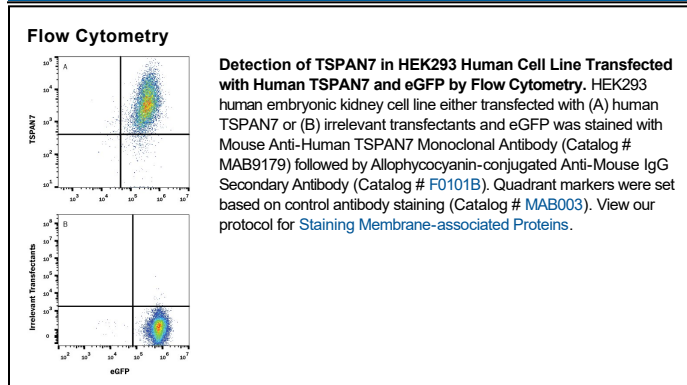
Species Reactivity	Human
Specificity	Stains human TSPAN7 transfectants but not irrelevant transfectants in flow cytometry.
Source	Monoclonal Mouse IgG _{2A} Clone # 482618
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	HEK293 human embryonic kidney cell line transfected with human TSPAN7 Accession # P41732
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	0.25 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
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-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.