Human TSPAN12
Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 921938

Catalog Number: FAB8910R
25 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Stains human TSPAN12 transfectants but not irrelevant transfectants in flow cytometry.
Source	Monoclonal Mouse IgG_{2B} Clone # 921938
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	NS0 mouse myeloma cell line transfected with human TSPAN12 Met1-Leu305 Accession # O95859
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	Supplied 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.

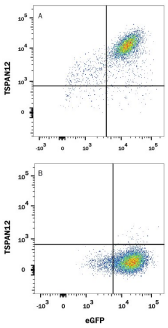
APPLICATIONS

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	5 µL/10^6 cells	See Below

DATA

Flow Cytometry



Detection of TSPAN12 in HEK293 Human Cell Line Transfected with Human TSPAN12 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with (A) human TSPAN12 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human TSPAN12 Alexa Fluor® 647-conjugated Monoclonal Antibody (Catalog # FAB8910R). Quadrant markers were set based on control antibody staining (Catalog # IC0041R). View our protocol for Staining Membrane-associated Proteins.

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

TSPAN12 is a member of the transmembrane 4 superfamily, also known as the tetraspanin family. They mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. TSPAN12 plays a central role in retinal vascularization by regulating norrin signal transduction. TSPAN12 acts in concert with norrin to promote FZD4 multimerization and subsequent activation of FZD4, leading to promote accumulation of beta-catenin and stimulate LEF/TCF-mediated transcriptional programs. Defects in TSPAN12 are the cause of vitreoretinopathy exudative type 5, a disorder of the retinal vasculature characterized by an abrupt cessation of growth of peripheral capillaries, leading to an avascular peripheral retina.

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