Human TSPAN1 Antibody

Monoclonal Mouse IgG_3 Clone # 819202

Catalog Number: MAB9186

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
Formulation	Lyophilized from a 0.2 µm filtered solution in TBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

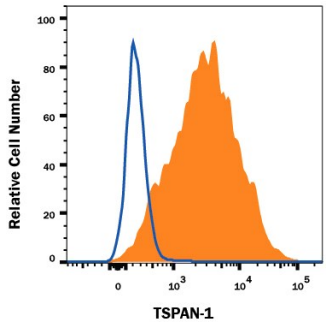
APPLICATIONS

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

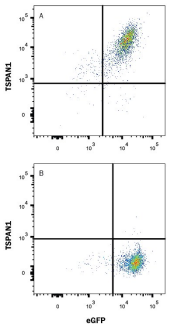
DATA

Flow Cytometry



Detection of TSPAN1 in HT-29 Human Cell Line by Flow Cytometry. HT-29 human colon adenocarcinoma cell line was stained with Mouse Anti-Human TSPAN1 Monoclonal Antibody (Catalog # MAB9186, filled histogram) or isotype control antibody (Catalog # MAB007, open histogram), followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). View our protocol for Staining Membrane-associated Proteins.

Flow Cytometry



Detection of TSPAN1 in HEK293 Human Cell Line Transfected with Human TSPAN1 and eGFP by Flow Cytometry. HEK293 human embryonic kidney cell line transfected with either (A) human TSPAN1 or (B) irrelevant transfectants and eGFP was stained with Mouse Anti-Human TSPAN1 Monoclonal Antibody (Catalog # MAB9186) followed by Allophycocyanin-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # F0101B). Quadrant markers were set based on control antibody staining (Catalog # MAB007). View our protocol for Staining Membrane-associated Proteins.

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.** ● 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

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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