

TSPAN3 (G-13): sc-163490

BACKGROUND

Tetraspanins are a group of hydrophobic membrane proteins that interact with a wide variety of proteins including intracellular signaling molecules, integrins and membrane receptors. Members of the tetraspanin family are characterized by the presence of four hydrophobic domains and play a role in cell development, activation, growth and motility. TSPAN3 (tetraspanin 3), also referred to as TM4-A, TM4SF8 (transmembrane 4 superfamily member 8) or TSPAN-3, is a 253 amino acid multi-pass membrane protein that belongs to the tetraspanin (TM4SF) family. Widely expressed, TSPAN3 interacts with claudin-11, an oligodendrocyte-specific protein. It is suggested that TSPAN3 regulates the proliferation and migration of oligodendrocytes, a mechanism that is essential for normal myelination and repair. TSPAN3 is encoded by a gene located on human chromosome 15q24.3.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TSPAN3 (human) mapping to 15q24.3; Tspan3 (mouse) mapping to 9 B.

SOURCE

TSPAN3 (G-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of TSPAN3 of human origin.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-163490 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TSPAN3 (G-13) is recommended for detection of TSPAN3 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other TSPAN family members.

TSPAN3 (G-13) is also recommended for detection of TSPAN3 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for TSPAN3 siRNA (h): sc-90191, TSPAN3 siRNA (m): sc-154728, TSPAN3 shRNA Plasmid (h): sc-90191-SH, TSPAN3 shRNA Plasmid (m): sc-154728-SH, TSPAN3 shRNA (h) Lentiviral Particles: sc-90191-V and TSPAN3 shRNA (m) Lentiviral Particles: sc-154728-V.

Molecular Weight of TSPAN3: 32 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker[™] compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker[™] Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz[™] Mounting Medium: sc-24941.

STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.