

TSPAN7 (E-13): sc-139573

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. TSPAN7 (tetraspanin 7), also known as MXS1 (membrane component chromosome X surface marker 1) or TM4SF2 (transmembrane 4 superfamily member 2), is a 249 amino acid multi-pass membrane protein belonging to the tetraspanin (TM4SF) family of transmembrane proteins. TSPAN7 is believed to play a role in cell motility and cell pro-liferation. The gene that encodes TSPAN7 maps to human chromosome X and defects in this gene are a cause of mental retardation X-linked type 58 (MRX58), which is characterized by dramatically below average general intellectual functioning.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TSPAN7 (human) mapping to Xp11.4; Tspan7 (mouse) mapping to X A1.1.

RESEARCH USE

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

SOURCE

TSPAN7 (E-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping within an extracellular domain of TSPAN7 of human origin.

PRODUCT

Each vial contains 100 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-139573 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TSPAN7 (E-13) is recommended for detection of TSPAN7 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); non cross-reactive with other TSPAN family members.

TSPAN7 (E-13) is also recommended for detection of TSPAN7 in additional species, including equine, canine and porcine.

Suitable for use as control antibody for TSPAN7 siRNA (h): sc-91320, TSPAN7 siRNA (m): sc-154730, TSPAN7 shRNA Plasmid (h): sc-91320-SH, TSPAN7 shRNA Plasmid (m): sc-154730-SH, TSPAN7 shRNA (h) Lentiviral Particles: sc-91320-V and TSPAN7 shRNA (m) Lentiviral Particles: sc-154730-V.

Molecular Weight of TSPAN7: 28 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.