TSPAN6 (Y-16): sc-244514



The Power to Question

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. TSPAN6 (tetraspanin-6), also known as A15 homolog, putative NF κ B-activating protein 321, T245 protein, tetraspanin TM4-D or TM4SF6 (transmembrane 4 superfamily member 6), is a 245 amino acid multi-pass membrane protein that belongs to the tetraspanin (TM4SF) family. TSPAN6 is expressed at high levels in brain, with lower levels of expression found in colon, lung, pancreas, prostate, retina and melanocytes, as well as fetal heart, liver and spleen. The gene encoding TSPAN6 maps to the human X chromosome.

REFERENCES

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- 3. Berditchevski, F. 2001. Complexes of tetraspanins with integrins: more than meets the eye. J. Cell Sci. 114: 4143-4151.
- 4. Clark, H.F., et al. 2003. The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment. Genome Res. 13: 2265-2270.
- Tiwari-Woodruff, S.K., et al. 2004. Developmental expression of OAP-1/Tspan-3, a member of the tetraspanin superfamily. J. Neurosci. Res. 77: 166-173.
- Ross, M.T., et al. 2004 The DNA sequence of the human X chromosome. Nature 434: 325-337.
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CHROMOSOMAL LOCATION

Genetic locus: TSPAN6 (human) mapping to Xq22.1.

SOURCE

TSPAN6 (Y-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of TSPAN6 of human origin.

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.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-244514 P, ($100 \mu g$ peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

TSPAN6 (Y-16) is recommended for detection of TSPAN6 of 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).

TSPAN6 (Y-16) is also recommended for detection of TSPAN6 in additional species, including canine, bovine and porcine.

Suitable for use as control antibody for TSPAN6 siRNA (h): sc-90862, TSPAN6 shRNA Plasmid (h): sc-90862-SH and TSPAN6 shRNA (h) Lentiviral Particles: sc-90862-V.

Molecular Weight of TSPAN6: 28 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.

RESEARCH USE

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

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3801 Fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com