

NET-7 (N-14): sc-163127

BACKGROUND

NET-7, also known as TSPAN15 (tetraspanin 15) or TM4SF15 (transmembrane 4 superfamily member 15), is a 294 amino acid multi-pass membrane protein that belongs to the transmembrane 4 superfamily, also known as the tetraspanin family. Members of the tetraspanin family are cell-surface proteins that are characterized by the presence of four hydrophobic domains and mediate signal transduction events that play a role in the regulation of cell development, activation, growth, motility, differentiation, and cancer. Considered molecular facilitators, tetraspanin proteins may regulate vesicle fusion and fission.

REFERENCES

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4. Tarrant, J.M., Robb, L., van Spriell, A.B. and Wright, M.D. 2003. Tetraspanins: molecular organisers of the leukocyte surface. *Trends Immunol.* 24: 610-617.
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6. Levy, S. and Shoham, T. 2005. The tetraspanin web modulates immune-signalling complexes. *Nat. Rev. Immunol.* 5: 136-148.
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CHROMOSOMAL LOCATION

Genetic locus: TSPAN15 (human) mapping to 10q22.1; Tspan15 (mouse) mapping to 10 B4.

SOURCE

NET-7 (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an N-terminal cytoplasmic domain of NET-7 of human origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-163127 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

STORAGE

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

APPLICATIONS

NET-7 (N-14) is recommended for detection of NET-7 of mouse and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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 NET family members.

NET-7 (N-14) is also recommended for detection of NET-7 in additional species, including equine, canine and bovine.

Suitable for use as control antibody for NET-7 siRNA (h): sc-90664, NET-7 siRNA (m): sc-154725, NET-7 shRNA Plasmid (h): sc-90664-SH, NET-7 shRNA Plasmid (m): sc-154725-SH, NET-7 shRNA (h) Lentiviral Particles: sc-90664-V and NET-7 shRNA (m) Lentiviral Particles: sc-154725-V.

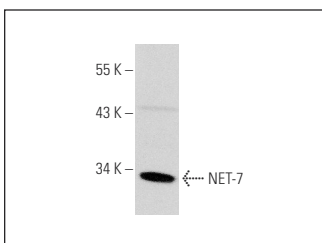
Molecular Weight of NET-7: 33 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or NIH/3T3 whole cell lysate: sc-2210.

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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



NET-7 (N-14): sc-163127. Western blot analysis of NET-7 expression in NIH/3T3 whole cell lysate.

RESEARCH USE

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

PROTOCOLS

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