

NET-6 (S-13): sc-160582

BACKGROUND

NET-6, also known as TSPAN13 (tetraspanin-13) or TM4SF13 (transmembrane 4 superfamily member 13), is a 204 amino acid multi-pass membrane protein that belongs to the tetraspanin (TM4SF) 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. The gene encoding NET-6 maps to human chromosome 7, which houses over 1,000 genes, comprises nearly 5% of the human genome and has been linked to osteogenesis imperfecta, Pendred syndrome, lissencephaly, citrullinemia and Shwachman-Diamond syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TSPAN13 (human) mapping to 7p21.1; Tspan13 (mouse) mapping to 12 A3.

SOURCE

NET-6 (S-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an extracellular domain of NET-6 of rat origin.

STORAGE

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

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-160582 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

NET-6 (S-13) is recommended for detection of NET-6 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 NET family members.

Suitable for use as control antibody for NET-6 siRNA (h): sc-89789, NET-6 siRNA (m): sc-149916, NET-6 shRNA Plasmid (h): sc-89789-SH, NET-6 shRNA Plasmid (m): sc-149916-SH, NET-6 shRNA (h) Lentiviral Particles: sc-89789-V and NET-6 shRNA (m) Lentiviral Particles: sc-149916-V.

Molecular Weight of NET-6: 22 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.

PROTOCOLS

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