POMT2 (K-19): sc-48917



The Power to Question

BACKGROUND

O-mannosylation is an essential protein modification in eukaryotes that is initiated by an evolutionarily conserved family of protein O-mannosyltransferases. POMT2 encodes an integral membrane protein which localizes to the endoplasmic reticulum (ER) and shares significant sequence similarity with a family of protein O-mannosyltransferases of *S. cerevisiae*. The deduced 750 amino acid protein has a seven transmembrane helical structure with a central hydrophilic domain surrounded by five N-terminal and two C-terminal transmembrane regions. Like other known members of its family, POMT2 lacks a characteristic ER-targeting or -retention signal and contains five N-glycosylation sites. POMT2 shares 36% sequence identity with human POMT1 and RNA dot blot analysis reveals highest expression of mouse POMT2 in testis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: POMT2 (human) mapping to 14q24.3; Pomt2 (mouse) mapping to 12 D2.

SOURCE

POMT2 (K-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of POMT2 of human origin.

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-48917 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

POMT2 (K-19) is recommended for detection of POMT2 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).

POMT2 (K-19) is also recommended for detection of POMT2 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for POMT2 siRNA (h): sc-61381, POMT2 siRNA (m): sc-61382, POMT2 shRNA Plasmid (h): sc-61381-SH, POMT2 shRNA Plasmid (m): sc-61382-SH, POMT2 shRNA (h) Lentiviral Particles: sc-61381-V and POMT2 shRNA (m) Lentiviral Particles: sc-61382-V.

Molecular Weight of POMT2: 87 kDa.

Positive Controls: MCF7 whole cell lysate: sc-2206.

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) 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.

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.



Try **POMT2 (G-3): sc-393487**, our highly recommended monoclonal alternative to POMT2 (K-19).

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