

POM121 (S-16): sc-163247

BACKGROUND

POM121 (POM121 membrane glycoprotein), also known as POM121A (nuclear envelope pore membrane protein POM 121A), NUP121 (nucleoporin Nup121) or pore membrane protein of 121 kDa, is a 1,249 amino acid single-pass membrane protein that exists as three alternatively spiced isoforms and belongs to the POM121 family. Encoded by a gene that maps to human chromosome 7q11.23, POM121 is highly conserved and localizes to nucleus membrane and endoplasmic reticulum membrane. An essential component of the nuclear pore complex (NPC), POM121 is mandatory for nuclear envelope formation and may play a role in biogenesis of the NPC. POM121 associates with the central spoke ring complex and is involved in anchoring components of the pore complex to the pore membrane by way of its F-X-F-G repeat-containing domain. POM121 overexpression induces the formation of cytoplasmic annulate lamellae (AL).

REFERENCES

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STORAGE

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

CHROMOSOMAL LOCATION

Genetic locus: POM121C/POM121/POMZP3 (human) mapping to 7q11.23; Pom121 (mouse) mapping to 5 G2.

SOURCE

POM121 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of POM121 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-163247 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

POM121 (S-16) is recommended for detection of POM121 of mouse, rat, and human origin and POM121C and POMZP3 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); non cross-reactive with POM121L2.

POM121 (S-16) is also recommended for detection of POM121, POM121C and POMZP3 in additional species, including equine and canine.

Suitable for use as control antibody for POM121 siRNA (h): sc-89532, Pom121 siRNA (m): sc-152388, POM121 shRNA Plasmid (h): sc-89532-SH, Pom121 shRNA Plasmid (m): sc-152388-SH, POM121 shRNA (h) Lentiviral Particles: sc-89532-V and Pom121 shRNA (m) Lentiviral Particles: sc-152388-V.

Molecular Weight of POM121 isoforms 1/2/3: 128/99/101 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.