SANTA CRUZ BIOTECHNOLOGY, INC.

gp210 (S-20): sc-79500

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

The nuclear pore complex (NPC) mediates bidirectional macromolecular traffic between the nucleus and cytoplasm in eukaryotic cells and is comprised of more than 100 different subunits. Many of the subunits belong to a family called nucleoporins (Nups), which are characterized by the presence of O-linked-N-acetylglucosamine moieties and a distinctive pentapeptide repeat (XFXFG). gp210, also known as Nup210 (nucleoporin 210 kDa) or POM210, is a 1,887 amino acid single-pass type I membrane protein that localizes to both the endoplasmic reticulum and to the nucleus, specifically within the NPC. Expressed ubiquitously with highest expression in pancreas, testis, lung, ovary and liver, gp210 functions as a nucleoporin that is capable of dimerization and is essential for the assembly, fusion and structural integrity of the NPC. gp210 exists as multiple alternatively spliced isoforms and is subject to post-translational phosphorylation.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: NUP210 (human) mapping to 3p25.1; Nup210 (mouse) mapping to 6 D1.

SOURCE

gp210 (S-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of gp210 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-79500 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

gp210 (S-20) is recommended for detection of gp210 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).

gp210 (S-20) is also recommended for detection of gp210 in additional species, including equine and canine.

Suitable for use as control antibody for gp210 siRNA (h): sc-75164, gp210 siRNA (m): sc-75165, gp210 shRNA Plasmid (h): sc-75164-SH, gp210 shRNA Plasmid (m): sc-75165-SH, gp210 shRNA (h) Lentiviral Particles: sc-75164-V and gp210 shRNA (m) Lentiviral Particles: sc-75165-V.

Molecular Weight of gp210: 210 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.

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.