

Importin-12 (N-15): sc-104330

BACKGROUND

The Importin complex consists of Importin- α and Importin- β proteins which assist in transport of arginine- or serine-rich (SR) proteins across the nucleus. Importin-12, also known as transportin-3 or transportin-SR, is a member of the Importin- β family and functions as a nuclear transport receptor for serine/arginine-rich proteins. Through recognition of phosphorylated RS domains, Importin-12 mediates the nuclear import of several SR proteins, such as splicing factors SFRS1 and SFRS2. By regulating the nucleocytoplasmic transport of these and other SR mRNA splicing factors, Importin-12 controls their access to mRNA and, therefore, acts a transcriptional regulator.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: TNPO3 (human) mapping to 7q32.1; Tnp3 (mouse) mapping to 6 A3.

SOURCE

Importin-12 (N-15) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of Importin-12 of human origin.

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-104330 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Importin-12 (N-15) is recommended for detection of Importin-12 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 Importin family members.

Suitable for use as control antibody for Importin-12 siRNA (h): sc-89750, Importin-12 siRNA (m): sc-105574, Importin-12 shRNA Plasmid (h): sc-89750-SH, Importin-12 shRNA Plasmid (m): sc-105574-SH, Importin-12 shRNA (h) Lentiviral Particles: sc-89750-V and Importin-12 shRNA (m) Lentiviral Particles: sc-105574-V.

Molecular Weight of Importin-12: 110 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.