

Exportin 6 (H-300): sc-292223

BACKGROUND

Exportins, which recruit cargo to the nucleoplasm, preferentially bind their substrates at high RanGTP concentrations in the nucleus and exit the nucleus as trimeric cargo-Exportin-RanGTP complexes. These complexes are then disassembled via the hydrolysis of GTP. Exportin 6, also known as RANBP20 or XPO6, is a 1,125 amino acid protein that localizes to both the nucleus and the cytoplasm and contains one importin N-terminal domain. Existing in a complex with Profilin-1 and β -Actin, Exportin 6 functions to mediate the nuclear export of Actin-associated protein structures in somatic cells. The gene encoding Exportin 6 maps to human chromosome 16, which houses over 900 genes and comprises nearly 3% of the human genome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: XPO6 (human) mapping to 16p11.2; Xpo6 (mouse) mapping to 7 F3.

SOURCE

Exportin 6 (H-300) is a rabbit polyclonal antibody raised against amino acids 1-300 mapping at the N-terminus of Exportin 6 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.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

APPLICATIONS

Exportin 6 (H-300) is recommended for detection of Exportin 6 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

Exportin 6 (H-300) is also recommended for detection of Exportin 6 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for Exportin 6 siRNA (h): sc-93535, Exportin 6 siRNA (m): sc-144982, Exportin 6 shRNA Plasmid (h): sc-93535-SH, Exportin 6 shRNA Plasmid (m): sc-144982-SH, Exportin 6 shRNA (h) Lentiviral Particles: sc-93535-V and Exportin 6 shRNA (m) Lentiviral Particles: sc-144982-V.

Molecular Weight of Exportin 6: 129 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (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.

PROTOCOLS

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