

Exportin 7 (H-82): sc-98639

BACKGROUND

Exportin 7 is also known as RanBP16 (Ran-binding protein 16) or XPO7 and is a 1,087 amino acid protein. Exportin 7 is primarily expressed in testis, thyroid and bone marrow, but is also expressed in lung, liver and small intestine. Exportin 7 translocates proteins and large RNAs through the nuclear pore complex (NPC) and is localized to the cytoplasm and nucleus. Exportin 7 has two types of receptors, designated importins and exportins, both of which recognize proteins that contain nuclear localization signals (NLSs) and are targeted for transport either in or out of the nucleus via the NPC. Additionally, the nucleocytoplasmic RanGTP gradient regulates Exportin 7 distribution, and enables Exportin 7 to bind and release proteins and large RNAs before and after their transportation. Exportin 7 is thought to play a role in erythroid differentiation and may also interact with cancer-associated proteins, suggesting a role for Exportin 7 in tumorigenesis.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: XPO7 (human) mapping to 8p21.3; Xpo7 (mouse) mapping to 14 D2.

SOURCE

Exportin 7 (H-82) is a rabbit polyclonal antibody raised against amino acids 520-594 mapping within an internal region of Exportin 7 of human origin.

RESEARCH USE

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

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Exportin 7 (H-82) is recommended for detection of Exportin 7 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 7 (H-82) is also recommended for detection of Exportin 7 in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for Exportin 7 siRNA (h): sc-77831, Exportin 7 siRNA (m): sc-144983, Exportin 7 shRNA Plasmid (h): sc-77831-SH, Exportin 7 shRNA Plasmid (m): sc-144983-SH, Exportin 7 shRNA (h) Lentiviral Particles: sc-77831-V and Exportin 7 shRNA (m) Lentiviral Particles: sc-144983-V.

Molecular Weight of Exportin 7: 124 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.


 MONOS
 Satisfation
 Guaranteed

Try **Exportin 7 (A-11): sc-390025**, our highly recommended monoclonal alternative to Exportin 7 (H-82).