SZABO SCANDIC

Part of Europa Biosite

Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

linkedin.com/company/szaboscandic

SANTA CRUZ BIOTECHNOLOGY, INC.

Ran BP-17 (B-1): sc-518249

BACKGROUND

The transport of proteins and large RNAs through the nuclear pore complexes (NPC) is an energy-dependent and regulated process. The import of proteins with a nuclear localization signal (NLS) is accomplished by recognition of one or more clusters of basic amino acids by the importin-α/β complex. The small GTPase Ran plays a key role in NLS-dependent protein import. Ran BP-17 (ran-binding protein 17) is a 1,088 amino acid protein that belongs to the importin-β superfamily of nuclear transport receptors. Ran BP-17 is highly expressed in testis, moderately expressed in pancreas and weakly expressed in heart, placenta, lung, liver, thyroid, spinal cord, trachea and adrenal gland. The Ran BP-17 protein binds to nucleoporins and the GTP-bound form of Ran. Human Ran BP-16 and Ran BP-17 share 66% amino acid sequence identity. The Ran BP-17 gene is conserved in chimpanzee, canine, bovine, mouse and rat. and maps to human chromosome 5q35.1.

REFERENCES

1. Saltman, D.L., et al. 1993. A physical map of 15 loci on human chromosome 5q23-q33 by two-color fluorescence *in situ* hybridization. Genomics 16: 726-732.
2. Koch, P., et al. 2000. Identification of a novel putative Ran-binding protein and its close homologue. Biochem. Biophys. Res. Commun. 278: 241-249.
3. Kutay, U., et al. 2000. Identification of two novel RanGTP-binding proteins belonging to the importin β superfamily. J. Biol. Chem. 275: 40163-40168.
4. Online Mendelian Inheritance in Man, OMIM™. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 606141. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
5. Su, X.Y., et al. 2006. HOX11L2/TLX3 is transcriptionally activated through T-cell regulatory elements downstream of BCL11B as a result of the t(5;14)(q35;q32). Blood 108: 4198-4201.

CHROMOSOMAL LOCATION

Genetic locus: RANBP17 (human) mapping to 5q35.1.

SOURCE

Ran BP-17 (B-1) is a mouse monoclonal antibody specific for an epitope mapping between amino acids 558-580 of Ran BP-17 of human origin.

PRODUCT

Each vial contains 200 µg IgG_{2b} kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Ran BP-17 (B-1) is available conjugated to agarose (sc-518249 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-518249 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-518249 PE), fluorescein (sc-518249 FITC), Alexa Fluor® 488 (sc-518249 AF488), Alexa Fluor® 546 (sc-518249 AF546), Alexa Fluor® 594 (sc-518249 AF594) or Alexa Fluor® 647 (sc-518249 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-518249 AF680) or Alexa Fluor® 790 (sc-518249 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

Ran BP-17 (B-1) is recommended for detection of Ran BP-17 of human origin by Western Blotting (starting dilution 1:100, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

Suitable for use as control antibody for Ran BP-17 siRNA (h): sc-76346, Ran BP-17 shRNA Plasmid (h): sc-76346-SH and Ran BP-17 shRNA (h) Lentiviral Particles: sc-76346-V.

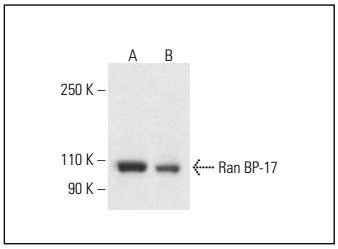
Molecular Weight of Ran BP-17: 124 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227 or HeLa whole cell lysate: sc-2200.

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 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 m-IgGκ BP-FITC: sc-516140 or m-IgGκ BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850.

DATA



Ran BP-17 (B-1): sc-518249. Western blot analysis of Ran BP-17 expression in Hep G2 (**A**) and HeLa (**B**) whole cell lysates. Detection reagent used: m-IgG_1 BP-HRP: sc-525408.

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 for detailed protocols and support products.