SANTA CRUZ BIOTECHNOLOGY, INC.

TARSH (H-8): sc-398847

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The Power to Question

BACKGROUND

TARSH [ABI family, member 3 (NESH) binding protein], whose alternative names include target of Nesh-SH3, Nesh-binding protein, ABI gene family member 3-binding protein, NESHBP, FLJ41743, FLJ41754 or ABI3BP, is a 1,075 amino acid protein involved in cellular senescence and tumor suppression. Loss of TARSH expression may play a role in the pathogenesis of cancer, especially in thyroid and lung. TARSH acts as a signal transduction molecule and is presumed to interact with with Abi-3, a protein involved in inhibition of ectopic metastasis of tumor cells. TARSH is expressed in brain, lung, heart, liver, placenta, pancreas and kidney, and four TARSH isoforms exist as a result of alternative splicing. TARSH contains a SH3 binding motif and a nuclear targeting sequence. The gene encoding TARSH maps to human chromosome 3, which houses over 1,100 genes, including a chemokine receptor (CKR) gene cluster and a variety of human cancer-related gene loci.

REFERENCES

1. De Jonghe, P., et al. 1997. Mutilating neuropathic ulcerations in a chromosome 3q13-q22 linked Charcot-Marie-Tooth disease type 2B family. J. Neurol. Neurosurg. Psychiatry 62: 570-573.
2. Matsuda, S., et al. 2001. Cloning and sequencing of a novel human gene that encodes a putative target protein of Nesh-SH3. J. Hum. Genet. 46: 483-486.
3. Online Mendelian Inheritance in Man, OMIM™. 2001. Johns Hopkins University, Baltimore, MD. MIM Number: 606279. World Wide Web URL: http://www.ncbi.nlm.nih.gov/omim/
4. Braga, E.A., et al. 2003. New tumor suppressor genes in hot spots of human chromosome 3: new methods of identification. Mol. Biol. 37: 194-211.
5. Tsend-Ayush, E., et al. 2004. Plasticity of human chromosome 3 during primate evolution. Genomics 83: 193-202.

CHROMOSOMAL LOCATION

Genetic locus: ABI3BP (human) mapping to 3q12.2; Abi3bp (mouse) mapping to 16 C1.1.

SOURCE

TARSH (H-8) is a mouse monoclonal antibody raised against amino acids 786-900 mapping within an internal region of TARSH of human origin.

PRODUCT

Each vial contains 200 µg IgG_1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

TARSH (H-8) is available conjugated to agarose (sc-398847 AC), 500 µg/ 0.25 ml agarose in 1 ml, for IP; to HRP (sc-398847 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-398847 PE), fluorescein (sc-398847 FITC), Alexa Fluor® 488 (sc-398847 AF488), Alexa Fluor® 546 (sc-398847 AF546), Alexa Fluor® 594 (sc-398847 AF594) or Alexa Fluor® 647 (sc-398847 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-398847 AF680) or Alexa Fluor® 790 (sc-398847 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS

TARSH (H-8) is recommended for detection of TARSH of mouse, rat and 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 TARSH siRNA (h): sc-77934, TARSH siRNA (m): sc-154073, TARSH shRNA Plasmid (h): sc-77934-SH, TARSH shRNA Plasmid (m): sc-154073-SH, TARSH shRNA (h) Lentiviral Particles: sc-77934-V and TARSH shRNA (m) Lentiviral Particles: sc-154073-V.

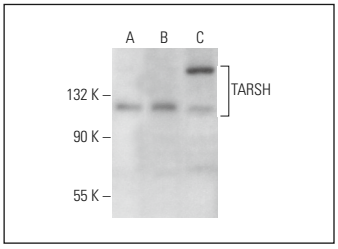
Molecular Weight of TARSH: 119 kDa.

Positive Controls: HeLa whole cell lysate: sc-2200, A-431 whole cell lysate: sc-2201 or KNRK whole cell lysate: sc-2214.

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



TARSH (H-8): sc-398847. Western blot analysis of TARSH expression in HeLa (**A**), A-431 (**B**) and KNRK (**C**) whole cell lysates.

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.