

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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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 in



Espin (m): 293T Lysate: sc-125310



The Power to Question

BACKGROUND

Espin (ESPN), also known as autosomal recessive deafness type 36 protein (DFNB36), is an 854 amino acid cytoplasmic protein that contains 9 ANK repeats and one WH2 domain. The WH2 domain of Espin binds actin monomers and mediates the assembly of the actin bundle. This interaction plays a major role in the moderation of the organization, dynamics and signaling capacities of the actin filament-rich specializations that regulate sensory transduction in various sensory cells. Defects in Espin are the cause of non-syndromic sensorineural deafness autosomal recessive type 36 (DFNB36), a sensorineural hearing loss caused by damage to the neural receptors of the inner ear, the nerve pathways to the brain or the region of the brain responsible for sound. Espin is expressed as two isoforms produced by alternative splicing and has been found to interact with IRSp53 and Profilin-2. In rodents, four major isoforms ranging from approximately 110 to 25 kDa have been identified with additional splice variants possible.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Espn (mouse) mapping to 4 E2.

PRODUCT

Espin (m): 293T Lysate represents a lysate of mouse Espin transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

APPLICATIONS

Espin (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive Espin antibodies. Recommended use: $10-20~\mu l$ per lane.

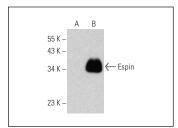
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

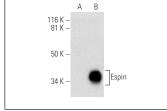
Espin (E-1): sc-515657 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse Espin expression in Espin transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA





Espin (E-1): sc-515657. Western blot analysis of Espin expression in non-transfected: sc-117752 (A) and mouse Espin transfected: sc-125310 (B) 293T whole cell Ivsates.

Espin (E-7): sc-393469. Western blot analysis of Espin expression in non-transfected: sc-117752 (**A**) and mouse Espin transfected: sc-125310 (**B**) 293T whole

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. 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.

Santa Cruz Biotechnology, Inc. 1.800.457.3801 831.457.3800 fax 831.457.3801 Europe +00800 4573 8000 49 6221 4503 0 www.scbt.com