

Bestrophin (h): 293T Lysate: sc-113613

BACKGROUND

The retinal pigment epithelium (RPE) and choroid represent a differentiated system of the eye that sustains normal retinal health and function. Best vitelliform macular dystrophy, known as Best disease, is an early-onset autosomal dominant condition in which accumulation of lipofuscin-like material within and beneath the RPE leads to progressive loss of central vision. The lipofuscin-like material in the macular area appears as a yellow mass like the yolk of an egg that later becomes darker and irregular in color, a process known as "scrambling the egg". Best disease is frequently a reflection of mutations in the Bestrophin gene, which encodes a protein containing four putative transmembrane domains and localizes to the basolateral plasma membrane of RPE cells. Human Bestrophin forms oligomeric chloride channels that are sensitive to intracellular calcium. Missense mutations at the Bestrophin locus reduces or abolishes Bestrophin protein mediated membrane current. The human Bestrophin gene encodes a 585 amino acid protein.

REFERENCES

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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.

CHROMOSOMAL LOCATION

Genetic locus: BEST1 (human) mapping to 11q12.3.

PRODUCT

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

APPLICATIONS

Bestrophin (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive Bestrophin antibodies. Recommended use: 10-20 µl per lane.

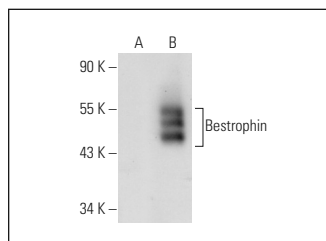
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

Bestrophin (E6-6): sc-32792 is recommended as a positive control antibody for Western Blot analysis of enhanced human Bestrophin expression in Bestrophin 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-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.

DATA



Bestrophin (E6-6): sc-32792. Western blot analysis of Bestrophin expression in non-transfected: sc-117752 (A) and human Bestrophin transfected: sc-113613 (B) 293T whole cell lysates.

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.