

connexin 31 (h): 293T Lysate: sc-113819

BACKGROUND

The connexin family of proteins form hexameric complexes, called connexons, that facilitate movement of low molecular weight proteins between cells via gap junctions. Connexin proteins share a common topology of four transmembrane α -helical domains, two extracellular loops, a cytoplasmic loop and cytoplasmic N- and C-termini. Many of the key functional differences arise from specific amino acid substitutions in the most highly conserved domains; the transmembrane and extracellular regions. Connexin 31, also known as GJB3 (gap junction β -3 protein), CX31, DFNA2 or EKV, is expressed in skin, testis, placenta, cochlea and developing hindbrain; and, in mice, it is also found in peripheral auditory nerves. Mutations in the gene encoding connexin 31 can result in non-syndromic sensorineural deafness autosomal dominant type 2 (DFNA2) and/or erythrokeratoderma variabilis (EVK), a condition characterized by localized or generalized hyperkeratosis and random, transient erythema-tous patches.

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CHROMOSOMAL LOCATION

Genetic locus: GJB3 (human) mapping to 1p34.3.

PRODUCT

connexin 31 (h): 293T Lysate represents a lysate of human connexin 31 transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

connexin 31 (h): 293T Lysate is suitable as a Western Blotting positive control for human reactive connexin 31 antibodies. Recommended use: 10-20 μ l per lane.

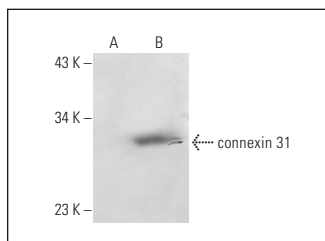
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

connexin 31 (LL8): sc-81803 is recommended as a positive control antibody for Western Blot analysis of enhanced human connexin 31 expression in connexin 31 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-IgG κ BP-HRP: sc-516102 or m-IgG κ 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



connexin 31 (LL8): sc-81803. Western blot analysis of connexin 31 expression in non-transfected: sc-117752 (A) and human connexin 31 transfected: sc-113819 (B) 293T whole cell lysates.

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.