SANTA CRUZ BIOTECHNOLOGY, INC.

CDSN (H-80): sc-134451

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Corneodesmosin (CDSN), also designated S protein, is a secreted protein found in corneodesmosomes, the intercellular structures that are involved in desquamation and the shedding of superficial corneocytes from the skin surface. CDSN expression is only observed in skin and its expression is associated with susceptibility to psoriasis, a heterogeneous inflammatory skin disease. The gene encoding for corneodesmosin, CDSN, is a strong candidate gene for psoriasis susceptibility due to its exclusive expression in differentiating keratinocytes. The CDSN gene contains 2 exons which encode a presumed 486 amino acid protein, including a putative 16 amino acid signal sequence. The CDSN protein shows homology to loricrin, keratin-1 and keratin-10, which are all major components of the granular layer.

REFERENCES

1. Capon, F., et al. 2004. A synonymous SNP of the corneodesmosin gene leads to increased mRNA stability and demonstrates association with psoriasis across diverse ethnic groups. Hum. Mol. Genet. 13: 2361-2368.
2. Orrù, S., et al. 2004. Mapping of the major psoriasis-susceptibility locus (PSORS1) in a 70 kb interval around the corneodesmosin gene (CDSN). Am. J. Hum. Genet. 76: 164-171.

CHROMOSOMAL LOCATION

Genetic locus: CDSN (human) mapping to 6p21.33; Cdsn (mouse) mapping to 17 B1.

SOURCE

CDSN (H-80) is a rabbit polyclonal antibody raised against amino acids 281-360 mapping within an internal region of CDSN of human origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

CDSN (H-80) is recommended for detection of Corneodesmosin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, 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).

CDSN (H-80) is also recommended for detection of Corneodesmosin in additional species, including equine.

Suitable for use as control antibody for CDSN siRNA (h): sc-60347, CDSN siRNA (m): sc-60348, CDSN shRNA Plasmid (h): sc-60347-SH, CDSN shRNA Plasmid (m): sc-60348-SH, CDSN shRNA (h) Lentiviral Particles: sc-60347-V and CDSN shRNA (m) Lentiviral Particles: sc-60348-V.

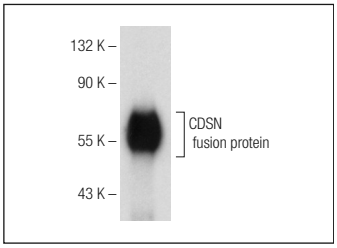
Molecular Weight of CDSN: 52 kDa.

Positive Controls: NIH/3T3 whole cell lysate: sc-2210.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



CDSN (H-80): sc-134451. Western blot analysis of human recombinant CDSN fusion protein.

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 or our catalog for detailed protocols and support products.