

cornifelin (N-14): sc-242501

BACKGROUND

Cornifelin, also known as CNFN or PLAC8L2, is a novel 112 amino acid protein and component of the insoluble cornified cell envelope of stratified squamous epithelia. Localized to cytoplasm, cornifelin cross-links to two other cornified cell envelope proteins, namely involucrin and Loricrin, and is expressed in uterus, skin and cervix. Expressed at a much higher level in psoriatic skin than in normal skin, cornifelin overexpression modifies the cornified cell envelope. Cornifelin is encoded by a gene that maps to human chromosome 19q13.2, which consists of approximately 63 million bases and makes up over 2% of human genomic DNA. Chromosome 19 is recognized for having the greatest gene density of the human chromosomes. It is the genetic home for a number of immunoglobulin (Ig) superfamily members, including the killer cell and leukocyte Ig-like receptors, a variety of ICAMs, the CEACAM and PSG families and Fc receptors (FcRs).

REFERENCES

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STORAGE

Store at 4° C, ****DO NOT FREEZE****. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

CHROMOSOMAL LOCATION

Genetic locus: CNFN (human) mapping to 19q13.2; Cfnf (mouse) mapping to 7 A3.

SOURCE

cornifelin (N-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of cornifelin 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.

Blocking peptide available for competition studies, sc-242501 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

cornifelin (N-14) is recommended for detection of cornifelin of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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).

cornifelin (N-14) is also recommended for detection of cornifelin in additional species, including equine, canine and bovine.

Suitable for use as control antibody for cornifelin siRNA (h): sc-97229, cornifelin siRNA (m): sc-142517, cornifelin shRNA Plasmid (h): sc-97229-SH, cornifelin shRNA Plasmid (m): sc-142517-SH, cornifelin shRNA (h) Lentiviral Particles: sc-97229-V and cornifelin shRNA (m) Lentiviral Particles: sc-142517-V.

Molecular Weight of cornifelin: 12 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.