**BACKGROUND**

Involucrin, Loricrin and Scielin are components of the keratinocyte cornified envelope, which is formed beneath the inner surface of the cell membrane and replaces the plasma membrane during terminal differentiation. Involucrin first appears in the cell cytosol, but ultimately becomes cross-linked to membrane proteins by transglutaminase. Loricrin localizes to the cytoplasm and the nucleus and is a substrate of transglutaminases. Mutations in LOR, the gene encoding Loricrin, may be involved in the skin disease loricrin keratoderma (LK), an ichthyotic variant of Vohwinkel syndrome (VS). LK is characterized by progressive symmetric erythrokeratoderma or congenital ichthyosiform erythroderma. Clinical symptoms of LK include hyperkeratosis of the soles and palms along with digital constriction.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: LOR (human) mapping to 1q21.3; Lor (mouse) mapping to 3 F1.

**SOURCE**

Loricrin (C-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of Loricrin 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-51130 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

**STORAGE**

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

**PROTOCOLS**

See our web site at www.scbt.com or our catalog for detailed protocols and support products.

**APPLICATIONS**

Loricrin (C-13) is recommended for detection of Loricrin 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:300).

Loricrin (C-13) is also recommended for detection of Loricrin in additional species, including bovine.


Molecular Weight of Loricrin: 26 kDa.

Positive Controls: Hep G2 cell lysate: sc-2227.

**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. 3) Immunohistochemistry: use ImmunoCruz™: sc-2053 or ABC: sc-2023 goat IgG Staining Systems.

**DATA**

Loricrin (C-13): sc-51130. Immunoperoxidase staining of formalin fixed, paraffin-embedded human skin tissue showing cytoplasmic staining of keratinocytes, Langerhans cells and melanocytes.

**SELECT PRODUCT CITATIONS**


**RESEARCH USE**

For research use only, not for use in diagnostic procedures.