

LCE3B-E (C-14): sc-138974

BACKGROUND

The lipid-corneocyte structure of stratum corneum is responsible for barrier activity of skin and internal barrier-forming epithelial linings. Corneocyte stability is dependent upon the outer cornified envelope and is essential for maintenance of barrier function. Within the epidermal differentiation complex on human chromosome 1 and mouse chromosome 3 lies the late cornified envelope (LCE) gene cluster, which contains multiple conserved genes encoding stratum-corneum proteins. Late cornified envelope proteins 3B, 3C, 3D and 3E (LCE3B, C, D and E) are a group of proteins that contain between 92-95 amino acids each and are precursors of the cornified envelope of the stratum corneum. All four proteins are expressed specifically in skin and are encoded by genes that map to the LCE gene cluster present on chromosome 1q21.

REFERENCES

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SOURCE

LCE3B-E (C-14) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping near the C-terminus of LCE3D of human origin.

PRODUCT

Each vial contains 100 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-138974 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

LCE3B-E (C-14) is recommended for detection of LCE3B, LCE3C, LCE3D and LCE3E of human origin by Western Blotting (starting dilution 1:100, dilution range 1:50-1:500), immunofluorescence (starting dilution 1:25, dilution range 1:25-1:250) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000); may cross-react with LCE3A.

Molecular Weight of LCE3B-E: 10 kDa.

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) 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.

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.