**BACKGROUND**

Lympho-epithelial Kazal-type inhibitor (LEKTI) is a serine protease inhibitor which protects mucous epithelia against microbial attack and inflammation. LEKTI is a marker of epithelial differentiation and expresses strongly in the granular and uppermost spinous layers of the epidermis and differentiated layers of stratified epithelia. Defects in SPINK5, the gene encoding LEKTI are the cause of Netherton syndrome, a severe autosomal recessive disorder characterized by atopic dermatitis, hayfever and other conditions.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: LAIR1 (human) mapping to 19q13.42; Lair1 (mouse) mapping to 7 A1.

**SOURCE**

LEKTI (E-9) is a mouse monoclonal antibody raised against amino acids 261-560 mapping within an internal region of LEKTI of human origin.

**PRODUCT**

Each vial contains 200 µg IgG₂a kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**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](http://www.scbt.com) for detailed protocols and support products.

**APPLICATIONS**

LEKTI (E-9) is recommended for detection of LEKTI precursor and mature form and HF7665 active peptide of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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), 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 1:30-1:3000).

Suitable for use as control antibody for LEKTI siRNA (h): sc-45358, LEKTI siRNA (m): sc-45359, LEKTI shRNA Plasmid (h): sc-45359-SH, LEKTI shRNA Plasmid (m): sc-45359-SH, LEKTI shRNA (h) Lentiviral Particles: sc-45359-V and LEKTI shRNA (m) Lentiviral Particles: sc-45359-V.

Molecular Weight (predicted) of LEKTI: 120 kDa.

Molecular Weight (observed) of full-length LEKTI: 130 kDa.

Positive Controls: CCD-1064Sk cell lysate: sc-2263, RBL-1 whole cell lysate: sc-364790 or SK-N-SH cell lysate: sc-2410.

**RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgG BP-HRP: sc-516102 or m-IgG 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. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use m-IgG BP-FITC: sc-516140 or m-IgG BP-PE: sc-516141 (dilution range: 1:50-1:200) with UltraCruz® Mounting Medium: sc-24941 or UltraCruz® Hard-set Mounting Medium: sc-359850. 4) Immunohistochemistry: use m-IgG BP-HRP: sc-516102 with DAB, 50X: sc-24982 and Immunohistomount: sc-45086, or Organo/Limonene Mount: sc-45087.

**DATA**

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

**RESEARCH USE**

LEKTI (E-9): sc-137109. Western blot analysis of LEKTI expression in CCD-1064Sk (A), SK-N-Sh (B), RAW 264.7 (C), WEHI-231 (D), RPE-J (E) and RBL-1 (F) whole cell lysates.

LEKTI (E-9): sc-137109. Immunofluorescence staining of methanol-fixed HeLa cells showing cytoplasmic and membrane staining of squamous epithelial cells (B).