SANTA CRUZ BIOTECHNOLOGY, INC.

LEKTI (H-300): sc-48756

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

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

1. Magert, H.J., et al. 1999. LEKTI, a novel 15-domain type of human serine proteinase inhibitor. J. Biol. Chem. 274: 21499-21502.
2. Walden, M., et al. 2002. Biochemical features, molecular biology and clinical relevance of the human 15-domain serine proteinase inhibitor LEKTI. Biol. Chem. 383: 1139-1141.
3. Magert, H.J., et al. 2002. LEKTI: a multidomain serine proteinase inhibitor with pathophysiological relevance. Int. J. Biochem. Cell Biol. 34: 573-576.
4. Lauber, T., et al. 2003. Homologous proteins with different folds: the three-dimensional structures of domains 1 and 6 of the multiple Kazal-type inhibitor LEKTI. J. Mol. Biol. 328: 205-219.

CHROMOSOMAL LOCATION

Genetic locus: SPINK5 (human) mapping to 5q32.

SOURCE

LEKTI (H-300) is a rabbit polyclonal antibody raised against amino acids 261-560 mapping within an internal region of LEKTI 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

LEKTI (H-300) is recommended for detection of LEKTI precursor and mature form and HF7665 active peptide of 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), 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 shRNA Plasmid (h): sc-45358-SH and LEKTI shRNA (h) Lentiviral Particles: sc-45358-V.

Molecular Weight (predicted) of LEKTI: 120 kDa.

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

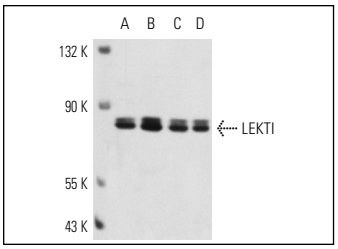
Molecular Weight (observed) of LEKTI fragments: 80/72/40 kDa.

Positive Controls: CCD-1064Sk cell lysate: sc-2263, HeLa whole cell lysate: sc-2200 or SK-N-SH cell lysate: sc-2410.

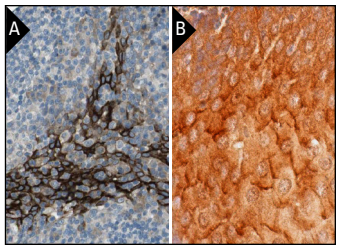
RECOMMENDED SECONDARY REAGENTS

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. 4) Immunohistochemistry: use ImmunoCruz™: sc-2051 or ABC: sc-2018 rabbit IgG Staining Systems.

DATA



LEKTI (H-300): sc-48756. Western blot analysis of LEKTI expression in CCD-1064Sk (**A**), HeLa (**B**), SK-N-SH (**C**) and Hs 732.Sk/Mu (**D**) whole cell lysates.



LEKTI (H-300): sc-48756. Immunoperoxidase staining of formalin fixed, paraffin-embedded human tonsil tissue showing cytoplasmic and membrane staining of surface epithelial cells and non-follicle cells Kindly provided by The Swedish Human Protein Atlas (HPA) program (**A**). Immunoperoxidase staining of formalin fixed, paraffin-embedded human esophagus tissue showing cytoplasmic and membrane staining of squamous epithelial cells (**B**).

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.