Product Name: KD-Validated SPINK5 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb01294
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 120.7kDa

Antigen Information

Gene Name	SPINK5
Alternative Names	SPINK5; Serine Peptidase Inhibitor Kazal Type 5; LEKTI; VAKTI; LETKI; NETS; NS; Lympho-Epithelial Kazal-Type-Related Inhibitor; Lymphoepithelial Kazal-Type-Related Inhibitor; Serine Protease Inhibitor Kazal-Type 5; FLJ21544; FLJ97536; FLJ97596 ; FLJ99794; Serine Protease Inhibitor, Kazal Type 5; DKFZp686K19184; DKFZP686K19184
Gene ID	11005.0
SwissProt ID	Q9NQ38
Immunogen	A synthesized peptide derived from human SPINK5 / LEKTI

Background

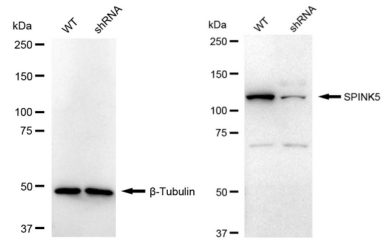
This gene encodes a multidomain serine protease inhibitor that contains 15 potential inhibitory domains. The encoded

preproprotein is proteolytically processed to generate multiple protein products, which may exhibit unique activities and specificities. These proteins may play a role in skin and hair morphogenesis, as well as anti-inflammatory and antimicrobial protection of mucous epithelia. Mutations in this gene may result in Netherton syndrome, a disorder characterized by ichthyosis, defective cornification, and atopy. This gene is present in a gene cluster on chromosome 5. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2015]

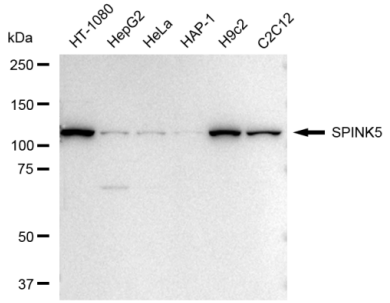
Research Area

Cell Biology

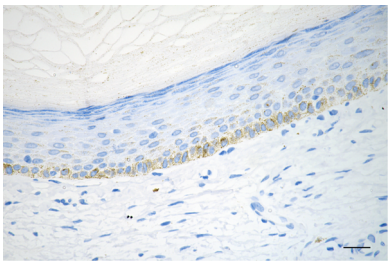
Image Data



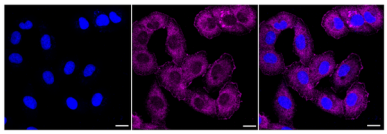
Western blotting analysis using SPINK5 antibody (KVAb01294). SPINK5 expression in wild type (WT) and SPINK5 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with SPINK5 antibody (KVAb01294, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



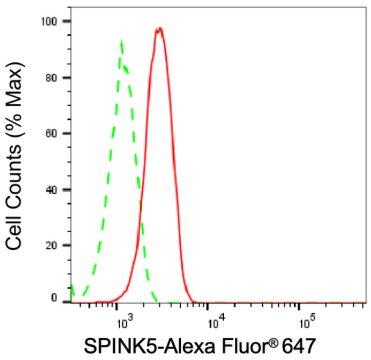
Western blotting analysis using SPINK5 antibody (KVAb01294). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with SPINK5 antibody (KVAb01294, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human skin tissue using SPINK5 antibody (KVAb01294, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HT-1080 cells with SPINK5 antibody (KVAb01294, 1:1,000). Nuclei were stained blue with DAPI; SPINK5 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.



Flow cytometric analysis of SPINK5 expression in HT-1080 cells using SPINK5 antibody (KVAb01294, 1:2,000). Green, isotype control; red, SPINK5.