10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SPRR2A Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10758b

Product Information

Application	WB, E
Primary Accession	P35326
Other Accession	NP_005979.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB24690
Calculated MW	7965
Antigen Region	48-72

Additional Information

Gene ID	6700
Other Names	Small proline-rich protein 2A, SPR-2A, 2-1, SPRR2A
Target/Specificity	This SPRR2A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 48-72 amino acids from the C-terminal region of human SPRR2A.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SPRR2A Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SPRR2A {ECO:0000303|PubMed:34735226, ECO:0000312|HGNC:HGNC:11261}
Function	Gut bactericidal protein that selectively kills Gram-positive bacteria by binding to negatively charged lipids on bacterial membranes, leading to bacterial membrane permeabilization and disruption (PubMed:34735226).

	Specifically binds lipids bearing negatively charged headgroups, such as phosphatidic acid, phosphatidylserine (PS), cardiolipin (CL), and phosphatidylinositol phosphates, but not to zwitterionic or neutral lipids (PubMed:34735226). Induced by type-2 cytokines in response to helminth infection and is required to protect against helminth-induced bacterial invasion of intestinal tissue (By similarity). May also be involved in the development of the cornified envelope of squamous epithelia; however, additional evidence is required to confirm this result in vivo (PubMed:8325635).
Cellular Location	Secreted. Secreted, extracellular space. Cytoplasmic vesicle, secretory vesicle. Note=Present in intestinal secretory epithelial cells and is secreted into the intestinal lumen.
Tissue Location	Expressed in intestine; selectively expressed in goblet cells.

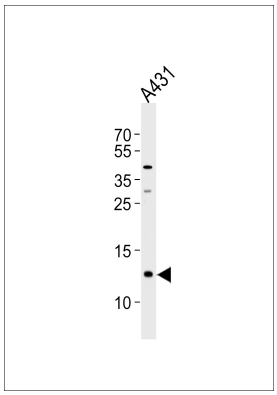
Background

Cross-linked envelope protein of keratinocytes. It is a keratinocyte protein that first appears in the cell cytosol, but ultimately becomes cross-linked to membrane proteins by transglutaminase. All that results in the formation of an insoluble envelope beneath the plasma membrane.

References

Kainu, K., et al. Exp. Dermatol. 18(2):109-115(2009)
Demetris, A.J., et al. J. Hepatol. 48(2):276-288(2008)
Tong, L., et al. Invest. Ophthalmol. Vis. Sci. 47(5):1938-1946(2006)
Hong, S.H., et al. Mol. Cells 17(3):477-484(2004)
Cabral, A., et al. J. Biol. Chem. 278(20):17792-17799(2003)

Images



Western blot analysis of lysate from A431 cell line, using SPRR2A Antibody (C-term)(Cat. #AP10758b). AP10758b was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.