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SCEL Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP11564c

Product Information

Application	IHC-P, WB, FC, IHC-P-Leica, E
Primary Accession	O95171
Other Accession	NP_659001.2, NP_003834.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB18951
Calculated MW	77552
Antigen Region	260-289

Additional Information

Gene ID	8796
Other Names	Sciellin, SCEL
Target/Specificity	This SCEL antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 260-289 amino acids from the Central region of human SCEL.
Dilution	IHC-P~~1:100 WB~~1:1000 FC~~1:10~50 IHC-P-Leica~~1:500 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	SCEL Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SCEL
Function	May function in the assembly or regulation of proteins in the cornified envelope. The LIM domain may be involved in homotypic or heterotypic associations and may function to localize sciellin to the cornified envelope.

Cellular Location	Cytoplasm. Membrane. Note=May become cross-linked to membrane proteins by transglutaminase
Tissue Location	Highly expressed in esophagus. It is also expressed in keratinocytes, amniotic tissue, foreskin stratum spinosum and stratum granulosum, hair follicle and nail

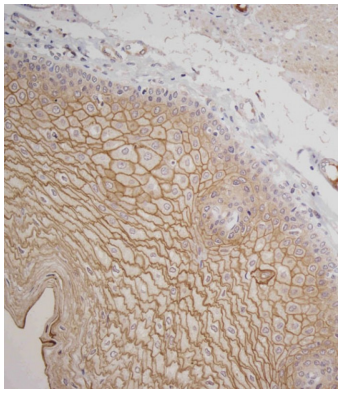
Background

The protein encoded by this gene is a precursor to the cornified envelope of terminally differentiated keratinocytes. This protein localizes to the periphery of cells and may function in the assembly or regulation of proteins in the cornified envelope. Transcript variants encoding different isoforms exist. A transcript variant utilizing an alternative polyA signal has been described in the literature, but its full-length nature has not been determined.

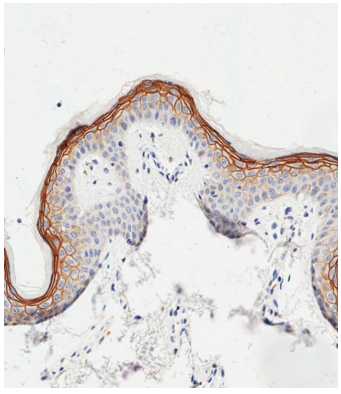
References

Pyle, A.L., et al. Cardiovasc. Pathol. 19 (2), E13-E20 (2010) :
Corona, W., et al. Anticancer Res. 24 (3A), 1417-1419 (2004) :
Champliaud, M.F., et al. J. Invest. Dermatol. 121(4):781-785(2003)
Champliaud, M.F., et al. Genomics 70(2):264-268(2000)
Champliaud, M.F., et al. J. Biol. Chem. 273(47):31547-31554(1998)

Images

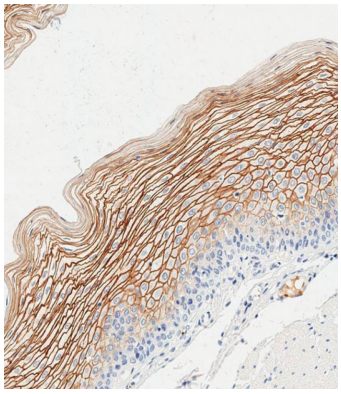


Immunohistochemical analysis of AP11564C on paraffin-embedded Human esophagus tissue. Tissue was fixed with formaldehyde at room temperature. Heat induced epitope retrieval was performed by EDTA buffer (pH9. 0). Samples were incubated with primary antibody(1:100) for 1 hour at room temperature. Undiluted CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

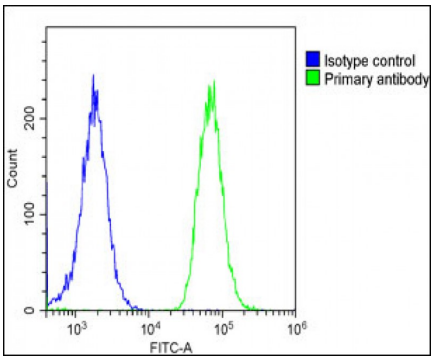


Immunohistochemical analysis of paraffin-embedded human skin tissue using AP11564C performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

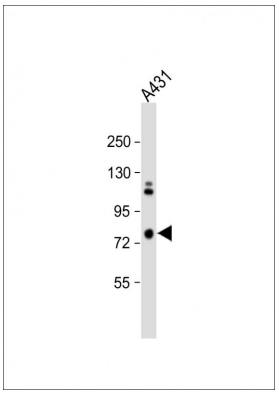
Immunohistochemical analysis of paraffin-embedded human esophagus tissue using AP11564C performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent



HRP Polymer antibody was used as the secondary antibody.



Overlay histogram showing A431 cells stained with AP11564C(green line). The cells were fixed with 2% paraformaldehyde and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed at 1/200 dilution for 40 min at Room temperature. Isotype control antibody (blue line) was rabbit IgG1 (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.



Anti-SCEL Antibody (Center) at 1:1000 dilution + A431 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 78 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

Citations

- Therapeutic prostate cancer interventions: a systematic review on pubic arch interference and needle positioning errors