ARG59492
anti-Collagen XVII antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes Collagen XVII
Tested Reactivity	Hu
Tested Application	FACS, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	Collagen XVII
Species	Human
Immunogen	KLH-conjugated synthetic peptide between aa. 475-504 of Human Collagen XVII.
Conjugation	Un-conjugated
Alternate Names	ERED; BP180; BPA-2; BPAG2; LAD-1; BA16H23.2; Collagen alpha-1(XVII) chain; 180 kDa bullous pemphigoid antigen 2; Bullous pemphigoid antigen 2; 120 kDa linear IgA dermatosis antigen; Linear IgA disease antigen 1; LAD-1; 97 kDa linear IgA disease antigen; 97 kDa linear IgA bullous dermatosis antigen; 97 kDa LAD antigen; 97-LAD; Linear IgA bullous disease antigen of 97 kDa; LABD97

Application Instructions

Application table

Application	Dilution
FACS	1:25
WB	1:2000

Application Note: * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Positive Control: A2058

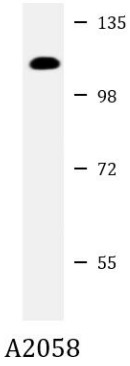
Properties

Form	Liquid
Purification	Purification with Protein A and immunogen peptide.
Buffer	PBS and 0.09% (W/V) Sodium azide.
Preservative	0.09% (W/V) Sodium azide.
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

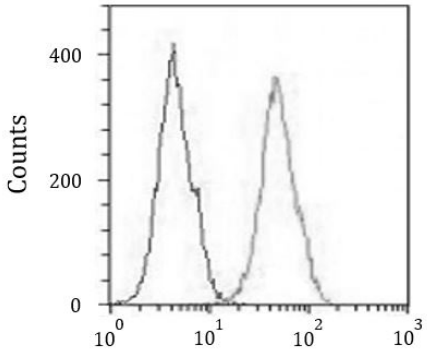
Gene Symbol	COL17A1
Gene Full Name	collagen, type XVII, alpha 1
Background	This gene encodes the alpha chain of type XVII collagen. Unlike most collagens, collagen XVII is a transmembrane protein. Collagen XVII is a structural component of hemidesmosomes, multiprotein complexes at the dermal-epidermal basement membrane zone that mediate adhesion of keratinocytes to the underlying membrane. Mutations in this gene are associated with both generalized atrophic benign and junctional epidermolysis bullosa. Two homotrimeric forms of type XVII collagen exist. The full length form is the transmembrane protein. A soluble form, referred to as either ectodomain or LAD-1, is generated by proteolytic processing of the full length form. [provided by RefSeq, Jul 2008]
Function	May play a role in the integrity of hemidesmosome and the attachment of basal keratinocytes to the underlying basement membrane. The 120 kDa linear IgA disease antigen is an anchoring filament component involved in dermal-epidermal cohesion. Is the target of linear IgA bullous dermatosis autoantibodies. [UniProt]
Calculated Mw	150 kDa
PTM	The intracellular/endo domain is disulfide-linked. Prolines at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains. The ectodomain is shedded from the surface of keratinocytes resulting in a 120-kDa soluble form, also named as 120 kDa linear IgA disease antigen. The shedding is mediated by membrane-bound metalloproteases. This cleavage is inhibited by phosphorylation at Ser-544. [UniProt]
Cellular Localization	Cell junction, hemidesmosome. Membrane; Single-pass type II membrane protein. Note=Localized along the plasma membrane of the hemidesmosome. 120 kDa linear IgA disease antigen: Secreted, extracellular space, extracellular matrix, basement membrane. Note=Exclusively localized to anchoring filaments. Localized to the epidermal side of split skin. 97 kDa linear IgA disease antigen: Secreted, extracellular space, extracellular matrix, basement membrane. [UniProt]

Images



ARG59492 anti-Collagen XVII antibody WB image

Western blot: 20 µg of A2058 cell lysate stained with ARG59492 anti-Collagen XVII antibody at 1:2000 dilution.



ARG59492 anti-Collagen XVII antibody FACS image

Flow Cytometry: A431 cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then incubated in 2% BSA to block non-specific protein-protein interactions followed by ARG59492 anti-Collagen XVII antibody (right histogram) at 1:25 dilution for 60 min at 37°C, followed by DyLight®488 labelled secondary antibody. Isotype control antibody (left histogram) was rabbit IgG (1 µg/10^6 cells) used under the same conditions. Acquisition of > 10000 events was performed.