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# COL17A1 Antibody (Center)

**Affinity Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP9099c**

## Specification

### COL17A1 Antibody (Center) - Product Information

| | |
|---|---|
| Application | **WB, FC,E** |
| Primary Accession | Q9UMD9 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Antigen Region | **475-504** |

### COL17A1 Antibody (Center) - Additional Information

**Gene ID** 1308

**Other Names**
Collagen alpha-1(XVII) chain, 180 kDa bullous pemphigoid antigen 2, Bullous pemphigoid antigen 2, 120 kDa linear IgA disease antigen, 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, COL17A1, BP180, BPAG2

**Target/Specificity**
This COL17A1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 475-504 amino acids from the Central region of human COL17A1.

**Dilution**
WB~~1:2000
FC~~1:25

**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**
COL17A1 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### COL17A1 Antibody (Center) - Protein Information

**Name** COL17A1

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**Synonyms** BP180, BPAG2

**Function** May play a role in the integrity of hemidesmosome and the attachment of basal keratinocytes to the underlying basement membrane.

**Cellular Location**
Cell junction, hemidesmosome. Membrane; Single- pass type II membrane protein. Note=Localized along the plasma membrane of the hemidesmosome [97 kDa linear IgA disease antigen]: Secreted, extracellular space, extracellular matrix, basement membrane Note=Localized in the lamina lucida beneath the hemidesmosomes

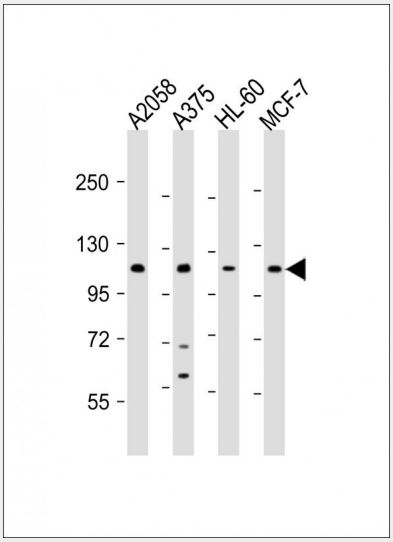
**Tissue Location**
Detected in skin (PubMed:8618013). In the cornea, it is detected in the epithelial basement membrane, the epithelial cells, and at a lower level in stromal cells (at protein level) (PubMed:25676728). Stratified squamous epithelia. Found in hemidesmosomes. Expressed in cornea, oral mucosa, esophagus, intestine, kidney collecting ducts, ureter, bladder, urethra and thymus but is absent in lung, blood vessels, skeletal muscle and nerves

## COL17A1 Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## COL17A1 Antibody (Center) - Images




All lanes : Anti-COL17A1 Antibody (Center) at 1:2000 dilution Lane 1: A2058 whole cell lysate Lane 2: A375 whole cell lysate Lane 3: HL-60 whole cell lysate Lane 4: MCF-7 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 : 150 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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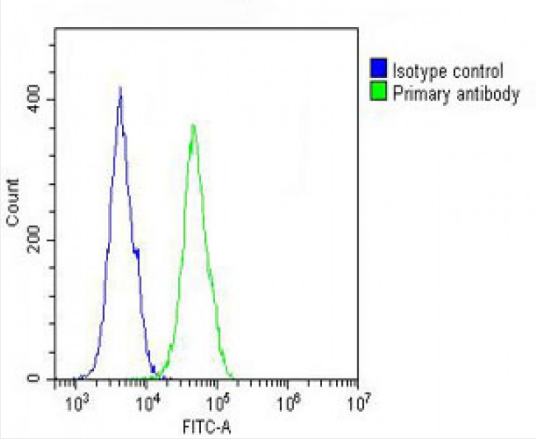


Overlay histogram showing A431 cells stained with AP9099c (green line). The cells were fixed with 2% paraformaldehyde (10 min) and then permeabilized with 90% methanol for 10 min. The cells were then icubated in 2% bovine serum albumin to block non-specific protein-protein interactions followed by the antibody (AP9099c, 1:25 dilution) for 60 min at 37ºC. The secondary antibody used was Goat-Anti-Rabbit IgG, DyLight® 488 Conjugated Highly Cross-Adsorbed(OH191631) at 1/200 dilution for 40 min at 37ºC. Isotype control antibody (blue line) was rabbit IgG (1µg/1x10^6 cells) used under the same conditions. Acquisition of >10, 000 events was performed.

**COL17A1 Antibody (Center) - Background**

COL17A1 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.

**COL17A1 Antibody (Center) - References**

Di Zenzo,G., et.al., J. Invest. Dermatol. 130 (4), 1040-1047 (2010)
Ujiie,H., et.al., J. Immunol. 184 (4), 2166-2174 (2010)