

**Anti-Periplakin Picoband Antibody**  
**Catalog # ABO10228****Specification**

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**Anti-Periplakin Picoband Antibody - Product Information**

Application	WB, IHC-P
Primary Accession	<a href="#">O60437</a>
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

**Description**

Rabbit IgG polyclonal antibody for Periplakin(PPL) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

**Reconstitution**

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

**Anti-Periplakin Picoband Antibody - Additional Information**

**Gene ID** 5493

**Other Names**

Periplakin, 190 kDa paraneoplastic pemphigus antigen, 195 kDa cornified envelope precursor protein, PPL, KIAA0568

**Calculated MW**

204747 MW KDa

**Application Details**

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Mouse, Rat, By Heat<br> <br>Western blot, 0.1-0.5 µg/ml, Human, Rat<br>

**Subcellular Localization**

Cell junction, desmosome . Cytoplasm, cytoskeleton . Cell membrane . Nucleus . Mitochondrion . Associated with desmosomes and intermediate filaments.

**Tissue Specificity**

Expressed in stratified squamous epithelia and in some other epithelia. .

**Protein Name**

Periplakin

**Contents**

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na<sub>2</sub>HPO<sub>4</sub>, 0.05mg NaN<sub>3</sub>.

**Immunogen**

A synthetic peptide corresponding to a sequence at the C-terminus of human Periplakin (1664-1701aa DTGRELSPEEAHRAGLIDWNMFVKLRSEQDWEEISVK), different from the related

mouse sequence by one amino acid.

**Purification**

Immunogen affinity purified.

**Cross Reactivity**

No cross reactivity with other proteins

**Storage**

**At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.**

**Anti-Periplakin Picoband Antibody - Protein Information****Name** PPL**Synonyms** KIAA0568**Function**

Component of the cornified envelope of keratinocytes. May link the cornified envelope to desmosomes and intermediate filaments. May act as a localization signal in PKB/AKT-mediated signaling.

**Cellular Location**

Cell junction, desmosome. Cytoplasm, cytoskeleton. Cell membrane {ECO:0000250|UniProtKB:Q9R269}. Cytoplasm {ECO:0000250|UniProtKB:Q9R269}

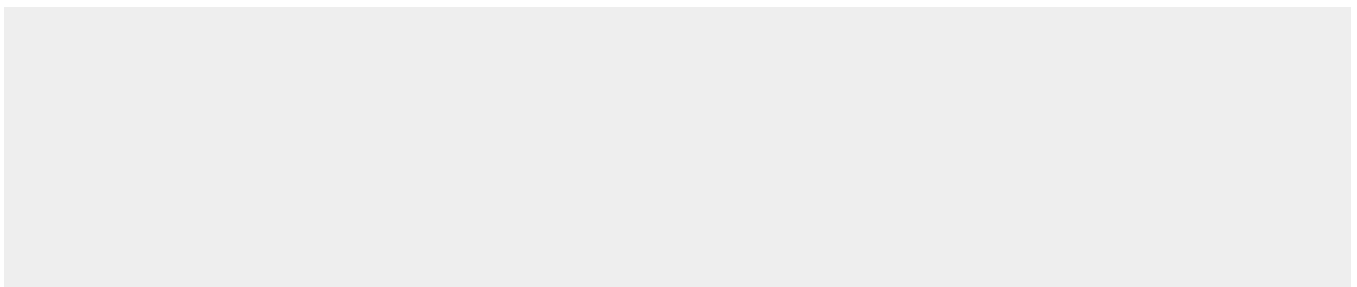
**Tissue Location**

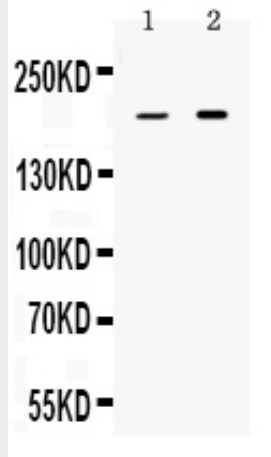
Expressed in stratified squamous epithelia and in some other epithelia.

**Anti-Periplakin Picoband Antibody - Protocols**

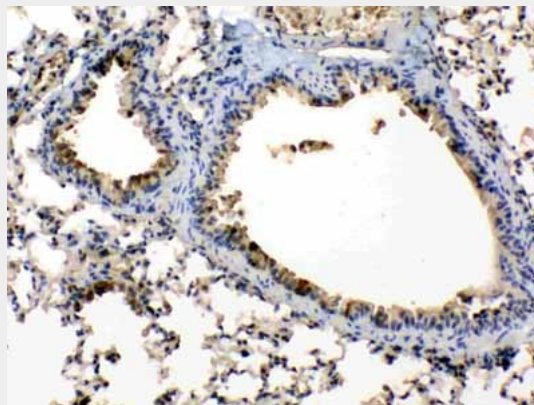
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

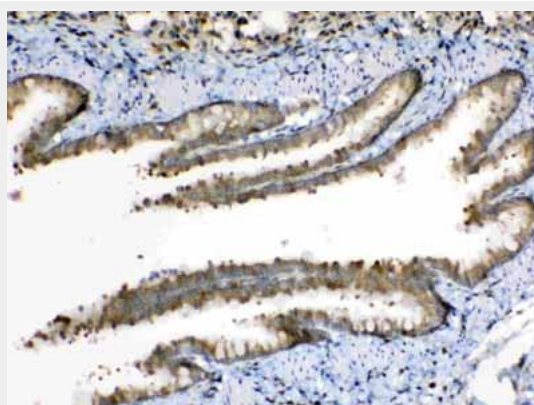
**Anti-Periplakin Picoband Antibody - Images**



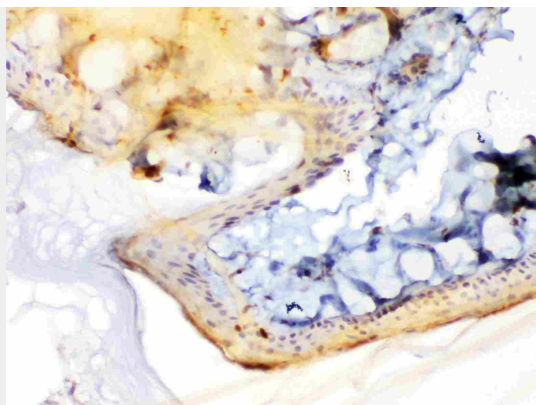
Western blot analysis of Periplakin expression in rat stomach extract (lane 1) and HELA whole cell lysates (lane 2). Periplakin at 202KD was detected using rabbit anti- Periplakin Antigen Affinity purified polyclonal antibody (Catalog #ABO10228) at 0.5  $\mu$ g/mL. The blot was developed using chemiluminescence (ECL) method .



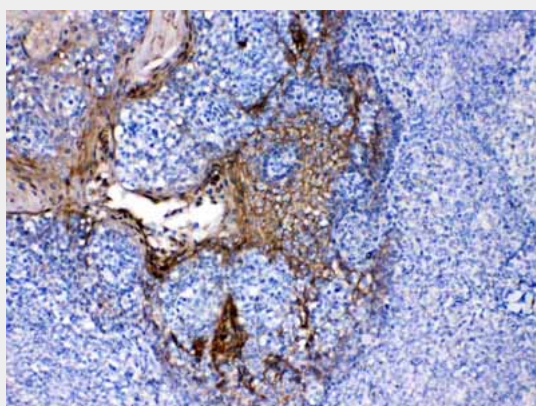
Periplakin was detected in paraffin-embedded sections of mouse lung tissues using rabbit anti- Periplakin Antigen Affinity purified polyclonal antibody (Catalog # ABO10228) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



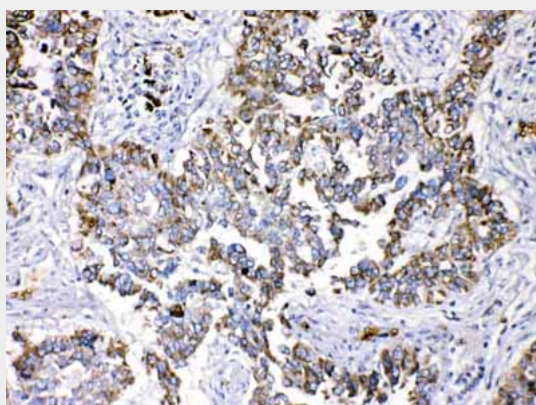
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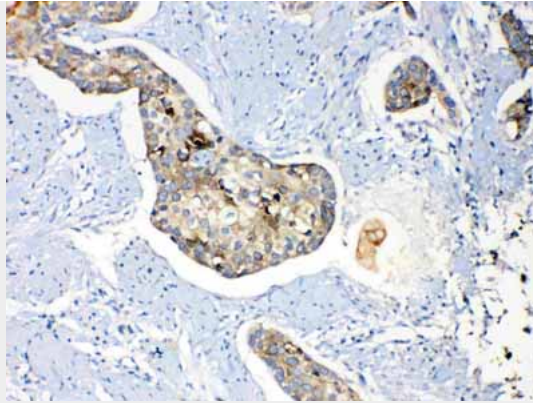
Periplakin was detected in paraffin-embedded sections of rat skin tissues using rabbit anti-Periplakin Antigen Affinity purified polyclonal antibody (Catalog # ABO10228) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



Periplakin was detected in paraffin-embedded sections of human tonsil tissues using rabbit anti-Periplakin Antigen Affinity purified polyclonal antibody (Catalog # ABO10228) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



Periplakin was detected in paraffin-embedded sections of human lung cancer tissues using rabbit anti- Periplakin Antigen Affinity purified polyclonal antibody (Catalog # ABO10228) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .



Periplakin was detected in paraffin-embedded sections of human oesophagus squama cancer tissues using rabbit anti- Periplakin Antigen Affinity purified polyclonal antibody (Catalog # ABO10228) at 1  $\mu$ g/mL. The immunohistochemical section was developed using SABC method .

#### **Anti-Periplakin Picoband Antibody - Background**

Periplakin is a protein that in humans is encoded by the PPL gene. The protein encoded by this gene is a component of desmosomes and of the epidermal cornified envelope in keratinocytes. The N-terminal domain of this protein interacts with the plasma membrane and its C-terminus interacts with intermediate filaments. Through its rod domain, this protein forms complexes with envoplakin. This protein may serve as a link between the cornified envelope and desmosomes as well as intermediate filaments. AKT1/PKB, a protein kinase mediating a variety of cell growth and survival signaling processes, is reported to interact with this protein, suggesting a possible role for this protein as a localization signal in AKT1-mediated signaling.