

## Anti-KRT6A/B/C Antibody Picoband®

Catalog Number: A04012-3

### About KRT6A/B/C

The protein encoded by this gene is a member of the keratin gene family. The type II cytokeratins consist of basic or neutral proteins which are arranged in pairs of heterotypic keratin chains coexpressed during differentiation of simple and stratified epithelial tissues. As many as six of this type II cytokeratin (KRT6) have been identified; the multiplicity of the genes is attributed to successive gene duplication events. The genes are expressed with family members KRT16 and/or KRT17 in the filiform papillae of the tongue, the stratified epithelial lining of oral mucosa and esophagus, the outer root sheath of hair follicles, and the glandular epithelia. This KRT6 gene in particular encodes the most abundant isoform. Mutations in these genes have been associated with pachyonychia congenita. In addition, peptides from the C-terminal region of the protein have antimicrobial activity against bacterial pathogens. The type II cytokeratins are clustered in a region of chromosome 12q12-q13.

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### Overview

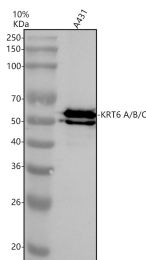
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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-KRT6A/B/C Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                   |
| Reactive Species     | Human                                                                                                                                                                                                                                                                                                                                                                                                               |
| Description          | Boster Bio Anti-KRT6A/B/C Antibody Picoband® catalog # A04012-3. Tested in WB, IHC applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Application          | IHC, WB                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clonality            | Polyclonal                                                                                                                                                                                                                                                                                                                                                                                                          |
| Formulation          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                                                                                                                                                                                                                           |
| Storage Instructions | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.                                                                                                                                                                                                                   |
| Host                 | Rabbit                                                                                                                                                                                                                                                                                                                                                                                                              |
| Uniprot ID           | P02538 P04259 P48668                                                                                                                                                                                                                                                                                                                                                                                                |

### Technical Details

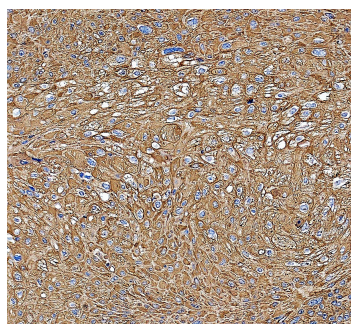
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|                     |                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------|
| Immunogen           | A synthetic peptide corresponding to a sequence in the middle region of human KRT6A/B/C.(MNKVELQAKADTLTDEINFL). |
| Form                | Lyophilized                                                                                                     |
| Concentration       | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                       |
| Purification        | Immunogen affinity purified.                                                                                    |
| Suggested Dilutions | Western blot, 0.25-0.5 ug/ml, Human<br>Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human        |

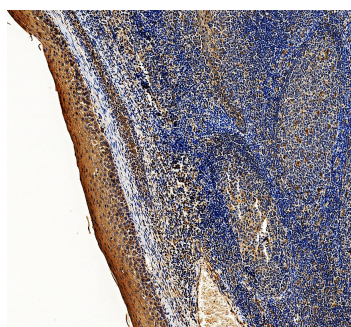
## Anti-KRT6A/B/C Antibody Picoband® (A04012-3) Images



Western blot analysis of KRT6A/B/C using anti-KRT6A/B/C antibody (A04012-3). Electrophoresis was performed on a 10% SDS-PAGE gel at 80V (Stacking gel) / 120V (Resolving gel) for 2 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: human A431 whole cell lysates. After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-KRT6A/B/C antigen affinity purified polyclonal antibody (A04012-3) at 0.5 ug/mL overnight at 4°C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an ECL Plus Western Blotting Substrate (Catalog # AR1196-200) with Tanon 5200 system. A specific band was detected for KRT6A/B/C at approximately 60 kDa. The expected band size for KRT6A/B/C is at 60 kDa.

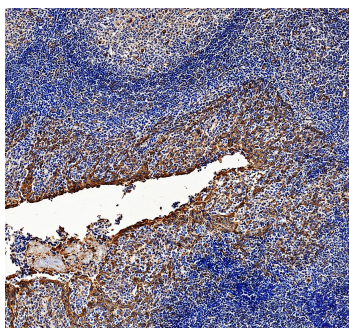


IHC analysis of KRT6A/B/C using anti-KRT6A/B/C antibody (A04012-3). KRT6A/B/C was detected in a paraffin-embedded section of human skin cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-KRT6A/B/C Antibody (A04012-3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.



IHC analysis of KRT6A/B/C using anti-KRT6A/B/C antibody (A04012-3). KRT6A/B/C was detected in a paraffin-embedded section of human tonsil tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-KRT6A/B/C Antibody (A04012-3) overnight at 4°C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37°C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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[Anti-KRT6A/B/C Antibody](#)

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