

## Anti-KRT10 Antibody Picoband®

Catalog Number: A02305-3

### About KRT10

This gene encodes a member of the type I (acidic) cytokeratin family, which belongs to the superfamily of intermediate filament (IF) proteins. Keratins are heteropolymeric structural proteins which form the intermediate filament. These filaments, along with actin microfilaments and microtubules, compose the cytoskeleton of epithelial cells. Mutations in this gene are associated with epidermolytic hyperkeratosis. This gene is located within a cluster of keratin family members on chromosome 17q21.

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### Overview

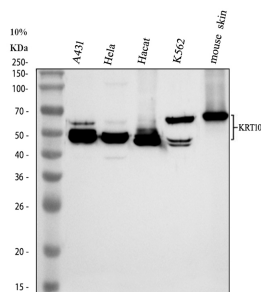
|                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Name         | Anti-KRT10 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Reactive Species     | Human, Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Description          | Boster Bio Anti-KRT10 Antibody Picoband® catalog # A02305-3. Tested in WB, IHC, ICC, IF, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse. 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          | ELISA, Flow Cytometry, IF, IHC, ICC, 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           | P13645                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### Technical Details

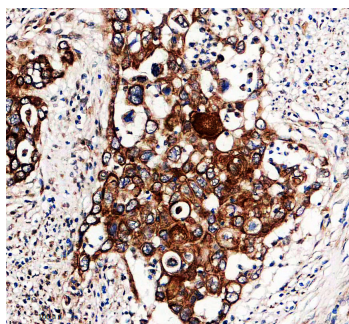
|           |                                                                       |
|-----------|-----------------------------------------------------------------------|
| Immunogen | E.coli-derived human KRT10 recombinant protein (Position: N171-Q434). |
| Form      | Lyophilized                                                           |

|                     |                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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, Mouse<br>Immunohistochemistry(Paraffin-embedded Section), 2-5 ug/ml, Human<br>Immunocytochemistry/Immunofluorescence, 5 ug/ml, Human<br>Flow Cytometry (Fixed), 1-3 ug/1x10 <sup>6</sup> cells, Human<br>ELISA, 0.1-0.5 ug/ml<br><br>Note: For flow cytometry (FCM), validated for fixed cells only. Not validated for FACS or surface flow cytometry using live cells. |

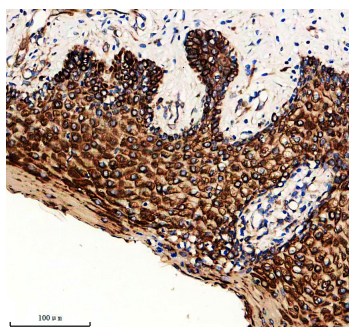
## Anti-KRT10 Antibody Picoband® (A02305-3) Images



Western blot analysis of KRT10 using anti-KRT10 antibody (A02305-3). 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 K562 whole cell lysates, Lane 2: mouse kidney tissue 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-KRT10 antigen affinity purified polyclonal antibody (A02305-3) 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 KRT10 at approximately 50-59 kDa. The expected band size for KRT10 is at 59 kDa.

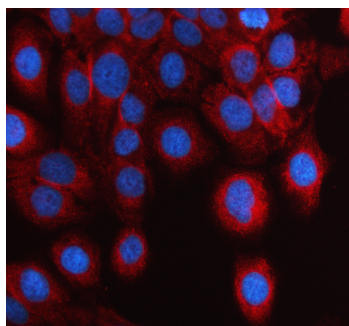


IHC analysis of KRT10 using anti-KRT10 antibody (A02305-3). KRT10 was detected in a paraffin-embedded section of human esophagus cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-KRT10 Antibody (A02305-3) 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.

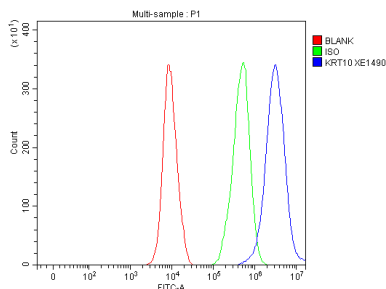


IHC analysis of KRT10 using anti-KRT10 antibody (A02305-3). KRT10 was detected in a paraffin-embedded section of human skin tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-KRT10 Antibody (A02305-3) 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.

IF analysis of KRT10 using anti-KRT10 antibody (A02305-3). KRT10 was detected in an immunocytochemical section of HaCaT cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent (AR0022) for 15 mins. The cells were blocked with 10% goat serum. And then



incubated with 5 ug/mL rabbit anti-KRT10 Antibody (A02305-3) overnight at 4°C. Cy3 Conjugated Goat Anti-Rabbit IgG (BA1032) was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37°C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of K562 cells using anti-KRT10 antibody (A02305-3). Overlay histogram showing K562 cells stained with A02305-3 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-KRT10 Antibody (A02305-3, 1 ug/1x10<sup>6</sup> cells) for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127, 5-10 ug/1x10<sup>6</sup> cells) was used as secondary antibody for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10<sup>6</sup>) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

### Anti-KRT10 Antibody

For Research Use Only. Not for use in diagnostic procedures.