Product datasheet

# Anti-Cytokeratin 19/KRT19 Antibody

**Catalog Number: *PB9715***

BOSTER
antibody and ELISA experts
**BOSTER BIOLOGICAL TECHNOLOGY**
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
East Lake High-Tech Development Zone, Wuhan.
***Web:*** www.boster.com ***Phone:*** 027-67845390/1/2 ***Email:*** boster@boster.com

## Basic Information

| | |
|---|---|
| **Product Name** | Anti-Cytokeratin 19/KRT19 Antibody |
| **Gene Name** | KRT19 |
| **Source** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | IgG |
| **Species Reactivity** | human, mouse, rat |
| **Tested Application** | WB, IHC, IF, ICC/IF, FCM |
| **Contents** | 500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol. |
| **Immunogen** | A synthetic peptide corresponding to a sequence at the C-terminus of human Cytokeratin 19, different from the related mouse and rat sequences by nine amino acids. |
| **Concentration** | 500 ug/ml |
| **Purification** | Immunogen affinity purified. |
| **Observed MW** | 44 kDa |
| **Dilution Ratios** | Western blot (WB): 1:500-2000<br>Immunohistochemistry (IHC): 1:50-400<br>Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400<br>Immunofluorescence (IF): 1:50-400<br>Flow Cytometry (Fixed): 1:50-200<br>(Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user. |

## Storage

12 months from date of receipt，-20℃ as supplied.

## Background Information

Keratin, type I cytoskeletal 19 is a protein that in humans is encoded by the KRT19 gene. The protein encoded by this gene is a member of the keratin family. It is specifically expressed in the periderm, the transiently superficial layer that envelops the developing epidermis. The type I cytokeratins are clustered in a region of chromosome 17q12-q21. Due to its high sensitivity, KRT19 is the most used marker for the RT-PCR-mediated detection of tumor cells disseminated in lymph nodes, peripheral blood, and bone marrow of breast cancer patients. Keratin 19 is often used together with keratin 8 and keratin 18 to differentiate cells of epithelial origin from hematopoietic cells in tests that enumerate circulating tumor cells in blood.

## Reference

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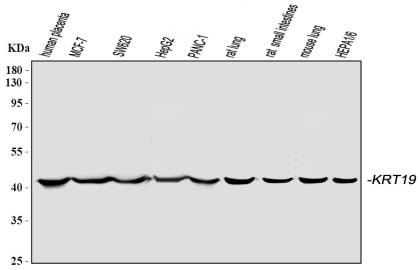
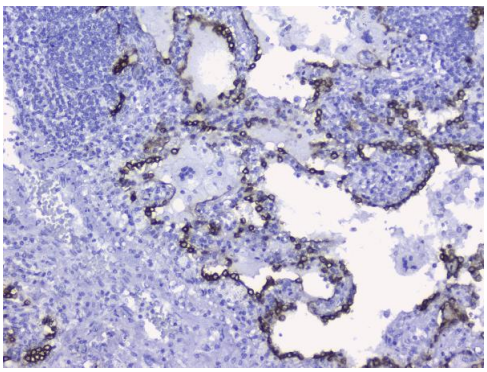
Anti-Cytokeratin 19/KRT19 Antibody被引用在14文献中。

## Selected Validation Data




Western blot analysis of Cytokeratin 19/KRT19 using anti-Cytokeratin 19/KRT19 antibody (PB9715). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human placenta tissue lysates,
Lane 2: human MCF-7 whole cell lysates,
Lane 3: human SW620 whole cell lysates,
Lane 4: human HepG2 whole cell lysates,
Lane 5: human PANC-1 whole cell lysates,
Lane 6: rat lung tissue lysates,
Lane 7: rat small intestine tissue lysates,
Lane 8: mouse lung tissue lysates,
Lane 9: mouse HEPA1-6 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Cytokeratin 19/KRT19 antigen affinity purified polyclonal antibody (PB9715) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for Cytokeratin 19/KRT19 at approximately 44 kDa. The expected band size for Cytokeratin 19/KRT19 is at 44 kDa.



IHC analysis of Cytokeratin 19/KRT19 using anti-Cytokeratin 19/KRT19 antibody (PB9715).
Cytokeratin 19/KRT19 was detected in a paraffin-embedded section of human lung cancer tissue. The tissue section was incubated with rabbit anti-Cytokeratin 19/KRT19 Antibody (PB9715) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.

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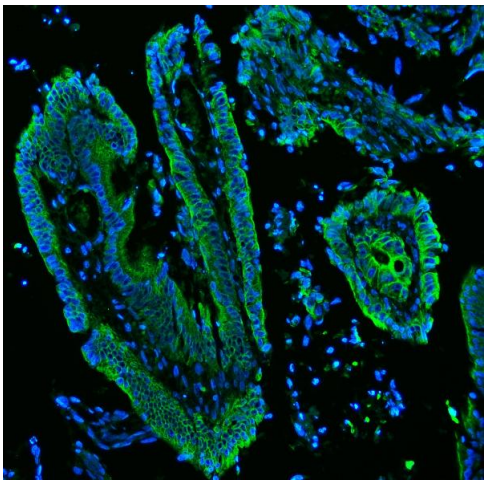
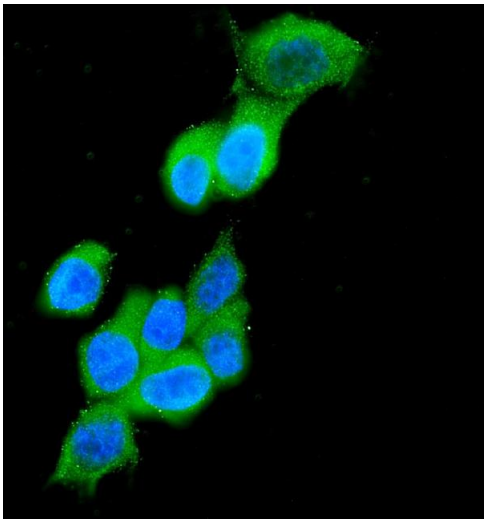
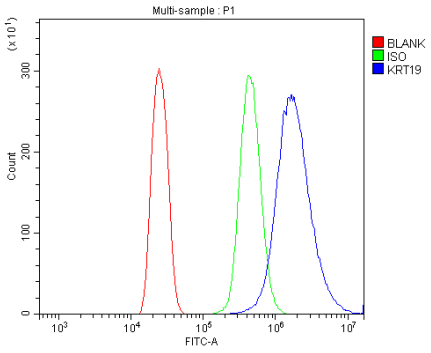


IF analysis using anti- KRT19 antibody (PB9715). detected in paraffin-embedded section of human colon cancer tissue. The tissue section were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green) (Catalog # BA1127) and counterstained with DAPI (blue).



IF analysis of Cytokeratin 19/KRT19 using anti-Cytokeratin 19/KRT19 antibody (PB9715).
Cytokeratin 19/KRT19 was detected in an immunocytochemical section of MCF-7 cells. The section was incubated with rabbit anti-Cytokeratin 19/KRT19 Antibody (PB9715) at a dilution of 1:100. DyLight®488 Conjugated Goat Anti-Rabbit IgG (Green) (Catalog # BA1127) was used as secondary antibody. The section was counterstained with DAPI (Catalog # AR1176) (Blue).




Flow Cytometry analysis of MCF-7 cells using anti-Cytokeratin 19/KRT19 antibody (PB9715).
Overlay histogram showing MCF-7 cells stained with PB9715 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Cytokeratin 19/KRT19 Antibody (PB9715) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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