Product datasheet

Anti-Cytokeratin 19/KRT19 Antibody

Catalog Number: *PB9715*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-Cytokeratin 19/KRT19 Antibody
Gene Name	KRT19
Source	Rabbit
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 BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Cytokeratin 19 (334-372aa QLAHIQALISGIEAQLGDVRADSERQNQEYQRLMDIKSR), different from the related mouse and rat sequences by nine amino acids.
concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	44KD
Dilution Ratios	Western blot(WB): 1:500-2000 Immunohistochemistry in paraffin section (IHC): 1:50-400 Immunocytochemistry/Immunofluorescence (ICC/IF): 1:50-400 Immunofluorescence (IF): 1:50-400 Flow cytometry (FCM): 1-3 μg/1x10^6 cells (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. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

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.

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Reference

Anti-Cytokeratin 19/KRT19 Antibody被引用在1文献中。

Selected Validation Data

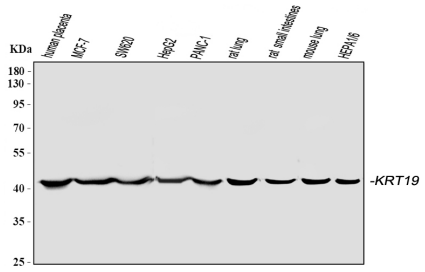

Figure 1. Western blot analysis of anti- KRT19 antibody (PB9715). The sample well of each lane was loaded with 50ug of sample under reducing conditions.
Lane 1: human placenta tissue lysates.
Lane 2: human MCF-7 whole cell lysates,
Lane 3: human SW620 whole cell lysates,
Lane 4: human HepG2 whole cell 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.
Use rabbit anti- KRT19 1:1000, probed with a goat anti-rabbit IgG-HRP secondary antibody. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit (Catalog # EK1002). A specific band was detected for KRT19 at approximately 44KD. The expected band size for KRT19 is at 44KD.

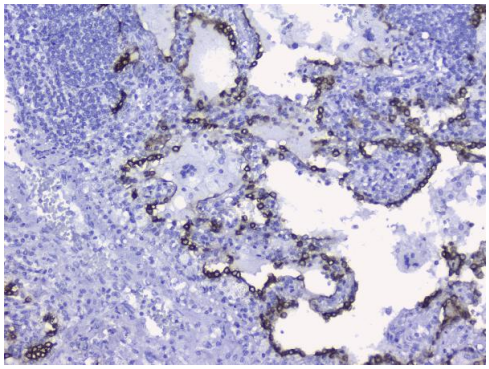

Figure 2. IHC analysis using anti- KRT19 antibody (PB9715). detected in paraffin-embedded section of human lung cancer tissue. Peroxidase Conjugated goat anti-rabbit IgG was used as secondary antibody. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB as the chromogen.

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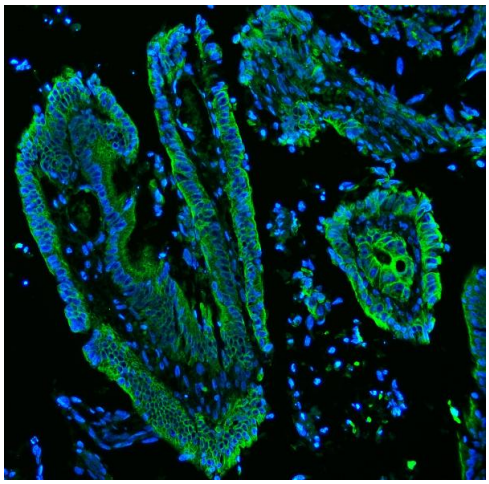

Figure 8. IF analysis using anti- KRT19 antibody (PB9715). detected in paraffin-embedded section of human colon cancer tissue. The tissue section were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green) (Catalog # BA1127) and counterstained with DAPI (blue).

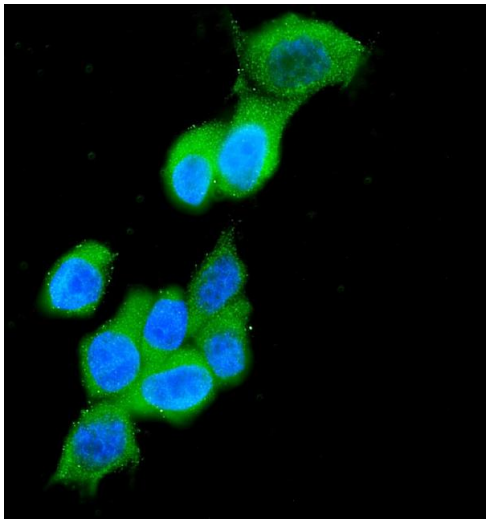

Figure 9. ICC analysis using anti- KRT19 antibody (PB9715). was detected in immersion fixed MCF-7 cell line. Cells were stained using the Dylight488-conjugated Anti-rabbit IgG Secondary Antibody (green)(Catalog#BA1127) and counterstained with DAPI (blue).

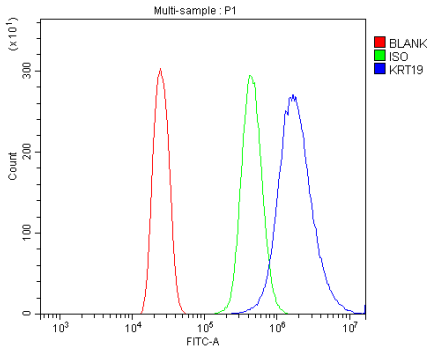

Figure 10. Flow cytometry analysis of MCF-7 cell (1x10^6) DyLight 488 conjugated goat anti- rabbit IgG(blue) was used as secondary antibody.Isotype control antibody (Green line) was rabbit IgG DyLight 488. Unlabelled sample (Red line).