Product datasheet

Anti-Cytokeratin 18/KRT18 Antibody

Catalog Number: *A01357-1*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
Building C21, 3rd to 5th Floors, Optics Valley Biopharmaceutical Accelerator,
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Basic Information

Product Name	Anti-Cytokeratin 18/KRT18 Antibody
Gene Name	KRT18
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IF, FCM
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human Cytokeratin 18 recombinant protein (Position: E204-H430). Human Cytokeratin 18 shares 87.7% and 85.9% amino acid (aa) sequence identity with mouse and rat Cytokeratin 18, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	48 kDa
Dilution Ratios	Western blot (WB): 1:500-5000 Immunohistochemistry (IHC): 1:50-400 Immunofluorescence(IF): 1:50-400 Flow Cytometry (Fixed): 1:50-200 (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 18, mapped to 12q13.13, is a type I cytokeratin. It is, together with its filament partner keratin 8, perhaps the most commonly found products of the intermediate filament gene family. They are expressed in single layer epithelial tissues of the body. Mutations in this gene have been linked to cryptogenic cirrhosis. Two transcript variants encoding the same protein have been found for this gene.

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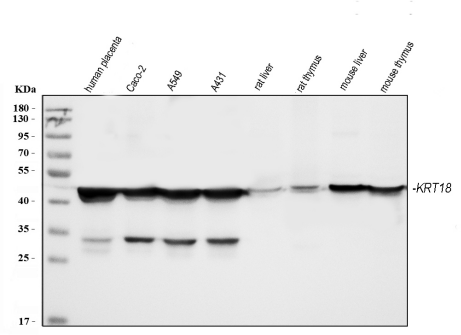
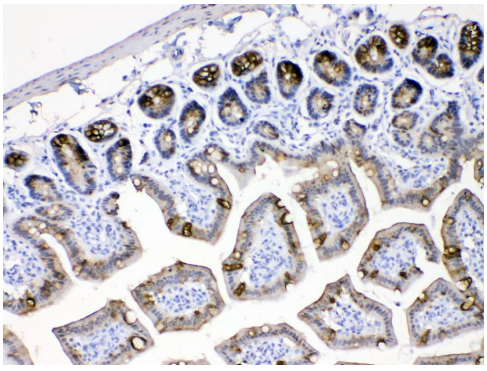
Reference

Anti-Cytokeratin 18/KRT18 Antibody被引用在17文献中。

Selected Validation Data



Western blot analysis of Cytokeratin 18/KRT18 using anti-Cytokeratin 18/KRT18 antibody (A01357-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human placenta tissue lysates,
Lane 2: Caco-2 whole cell lysates,
Lane 3: A549 whole cell lysates,
Lane 4: A431 whole cell lysates,
Lane 5: rat liver tissue lysates,
Lane 6: rat thymus tissue lysates,
Lane 7: mouse liver tissue lysates,
Lane 8: mouse thymus tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-Cytokeratin 18/KRT18 antigen affinity purified polyclonal antibody (A01357-1) 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 18/KRT18 at approximately 48 kDa. The expected band size for Cytokeratin 18/KRT18 is at 48 kDa.



IHC analysis of Cytokeratin 18/KRT18 using anti-Cytokeratin 18/KRT18 antibody (A01357-1).
Cytokeratin 18/KRT18 was detected in a paraffin-embedded section of mouse intestine tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-Cytokeratin 18/KRT18 Antibody (A01357-1) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.

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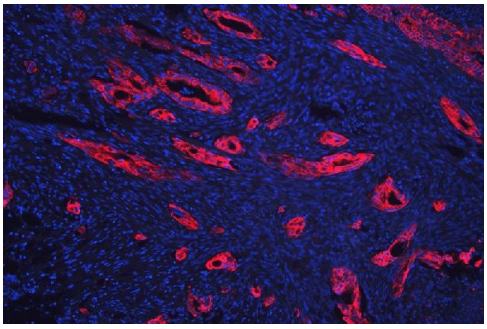
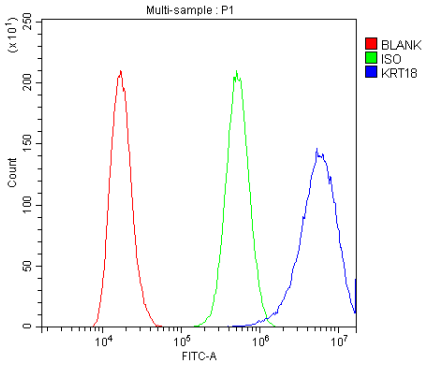


IF analysis of Cytokeratin 18 using anti-Cytokeratin 18 antibody (A01357-1)
Cytokeratin 18 was detected in paraffin-embedded section of human intestinal cancer tissuesanti-Cytokeratin 18 Antibody (A01357-1) . Biotin conjugated goat anti-rabbit IgG (BA1003) was used as secondary antibody . The tissue section was developed using Cy3 Conjugated Avidin (BA1037). The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



Flow Cytometry analysis of A431 cells using anti-Cytokeratin 18/KRT18 antibody (A01357-1).
Overlay histogram showing A431 cells stained with A01357-1 (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 18/KRT18 Antibody (A01357-1) 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.