

## Anti-Cytokeratin 18 (KRT18) Monoclonal Antibody

Catalog Number: M01357

### About KRT18

This monoclonal antibody reacts with a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid. Cytokeratin 18, which belongs to the type A (acidic) subfamily of low molecular weight keratins, exists in combination with cytokeratin 8. It was reported that tissues from gastrointestinal tract are positive for both cytokeratin 8 and 18 but do not contain cytokeratin 14. Tissues from gastrointestinal tract, respiratory tract and urogenital tract, as well as endocrine and exocrine tissues and mesothelial cells are positive for cytokeratin 18.

### Overview

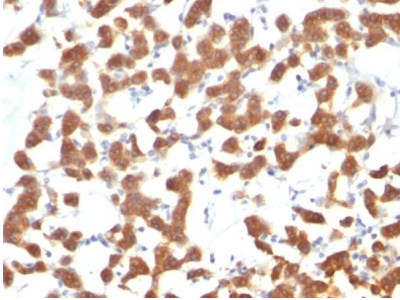
|                      |   |
|----------------------|---|
| Product Name         | Anti-Cytokeratin 18 (KRT18) Monoclonal Antibody   |
| Reactive Species     | Cow, Dog, Ferret, Goat, Hamster, Human, Mouse, Pig, Rat, Sheep, Horse, Cat, Marmoset monkey   |
| Description          | Boster Bio Anti-Cytokeratin 18 (KRT18) Monoclonal Antibody (Catalog # M01357). Tested in Flow Cytometry, IF, WB, IHC applications. This antibody reacts with Human, Mouse, Rat, Hamster, Ferret, Cow, Pig, Cat, Dog, Sheep, Goat, Horse, Marmoset monkey. |
| Conjugate            | Biotin  |
| Application          | Flow Cytometry, IF, IHC, WB   |
| Clonality            | Monoclonal Clone: C-04; same as Ks18.04   |
| Formulation          | Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.  |
| Storage Instructions | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.   |
| Host                 | Mouse   |
| Uniprot ID           | P05783  |

### Technical Details

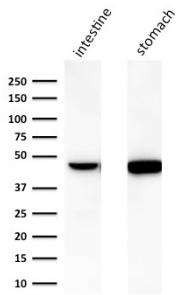
|                            |  |
|----------------------------|--|
| Immunogen                  | Cytoskeletal preparation extracted from the human vulvar squamous carcinoma cell line A431 |
| Predicted Reactive Species | Bovine, Canine, Mouse, Orangutan, Pig, Rabbit, Rat, Deer                                   |
| Cross Reactivity           | Does not cross-react with primate, avian or amphibian GR.                                  |
| Isotype                    | IgG1, kappa  |
| Form                       | Liquid   |
| Concentration              | Purified antibody with BSA and azide at 200ug/ml   |

|                     |  |
|---------------------|--|
| Purification        | 200ug/ml of antibody purified from Bioreactor Concentrate by Protein A/G.  |
| Suggested Dilutions | <p>Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.</p> <p>If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.</p> <p>Some PubMed article(s) citing the expression level of this target are as follows:</p> <p>Boster Bio's internal QC testing used:</p> <p>Flow Cytometry (1-2ug/million cells)</p> <p>Immunofluorescence (1-2ug/ml)</p> <p>Western Blot (1-2ug/ml)</p> <p>Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 min at RT) (Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&amp;degC followed by cooling at RT for 20 minutes)</p> <p>Optimal dilution for a specific application should be determined.</p> |

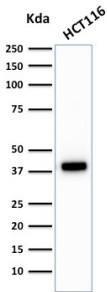
## Anti-Cytokeratin 18 (KRT18) Monoclonal Antibody (M01357) Images



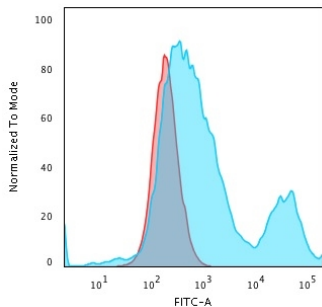
Formalin-fixed, paraffin-embedded human Thyroid Carcinoma stained with Anti-Cytokeratin 18 Mouse Monoclonal Antibody (C-04).



Western Blot analysis of human A) intestine and B) stomach lysate using Anti-Cytokeratin 18 Mouse Monoclonal Antibody (C-04).



Western Blot analysis of HCT116 cell lysate using Anti-Cytokeratin 18 Mouse Monoclonal Antibody (C-04).



Flow Cytometric analysis of PFA-fixed HeLa cells using Anti-Cytokeratin 18 Mouse Monoclonal Antibody (C-04) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

## 7 Publications Citing This Product

1. PubMed ID: 10.1016/j.micpath.2018.07.030, Protective effect of chlorogenic acid on lipopolysaccharide-induced inflammatory response in dairy mammary epithelial cells
2. PubMed ID: 33069797, Shi R,Liu L,Wang F,He Y,Niu Y,Wang C,Zhang X,Zhang X,Zhang H,Chen M,Wang Y.Downregulation of cytokeratin 18 induces cellular partial EMT and stemness through increasing EpCAM expression in breast cancer.Cell Signal.2020

Dec;76:109810.doi:10.1016/j.cellsig

3. PubMed ID: 22144492, Small intestinal intraepithelial lymphocytes expressing CD8 and T cell receptor  $\alpha\beta$  are involved in bacterial clearance during Salmonella enterica serovar Typhimurium  $\Delta$ 2026

Visit [bosterbio.com/anti-cytokeratin-18-krt18-antibody-m01357-boster.html](http://bosterbio.com/anti-cytokeratin-18-krt18-antibody-m01357-boster.html) to see all 7 publications.

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