

## Cytokeratin 18 (ABT-CK18) IHC kit

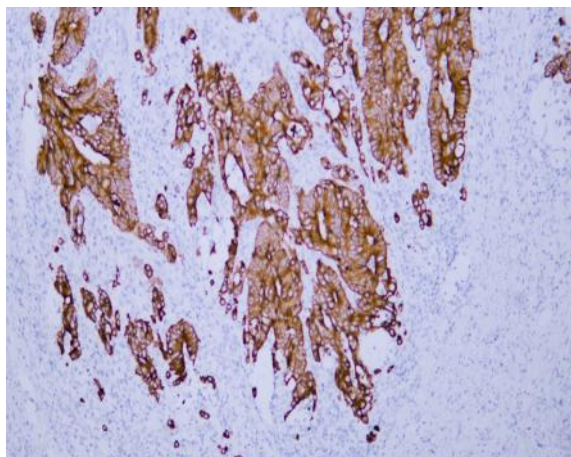
|                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No :</b>          | IHCM6166                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Reactivity :</b>          | Human;Mouse;Rat;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Applications :</b>        | IHC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Target :</b>              | Cytokeratin 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Fields :</b>              | >>Estrogen signaling pathway;>>Staphylococcus aureus infection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name :</b>           | KRT18 CYK18 PIG46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Name :</b>        | Keratin, type I cytoskeletal 18 (Cell proliferation-inducing gene 46 protein)<br>(Cytokeratin-18) (CK-18) (Keratin-18) (K18)                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Human Gene Id :</b>       | 3875                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Human Swiss Prot No :</b> | P05783                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Immunogen :</b>           | Synthesized peptide derived from human Cytokeratin 18 AA range: 200-300                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Specificity :</b>         | The antibody can specifically recognize human CK18 protein, and shows no cross reaction with CK1, 5, 6, 7, 8, 10, 13, 14, 15, 17, 19, 20.                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Source :</b>              | Mouse, Monoclonal/IgG2b, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purification :</b>        | The antibody was affinity-purified from ascites by affinity-chromatography using specific immunogen.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Storage Stability :</b>   | 2°C to 8°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Background :</b>          | <p>KRT18 encodes the type I intermediate filament chain keratin 18. Keratin 18, together with its filament partner keratin 8, are perhaps the most commonly found members 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. [provided by RefSeq, Jul 2008],</p> <p>disease:Defects in KRT18 are a cause of cryptogenic cirrhosis</p> |

**Function :** [MIM:215600].,function:Involved in the uptake of thrombin-antithrombin complexes by hepatic cells (By similarity). When phosphorylated, plays a role in filament reorganization. Involved in the delivery of mutated CFTR to the plasma membrane. Together with KRT8, is involved in interleukin-6 (IL-6)-mediated barrier protection.,induction:By IL-6.,miscellaneous:There are two types of cytoskeletal and microfibrillar keratin: I (acidic; 40-55 kDa) and II (neutral to basic; 56-70 kDa).,PTM:O-glycosylated at multiple sites; glycans consist of single N-acetylglucosamine residues.,PTM:Phosphorylation at Ser-34 increases during mitosis. Hyperphosphorylated at Ser-53 in diseased cirrhosis liver. Phosphorylation increases by IL-6.,PTM:Proteolytically cleaved by caspases during epithelial cell apoptosis. Cleavage occurs at Asp-238 by either

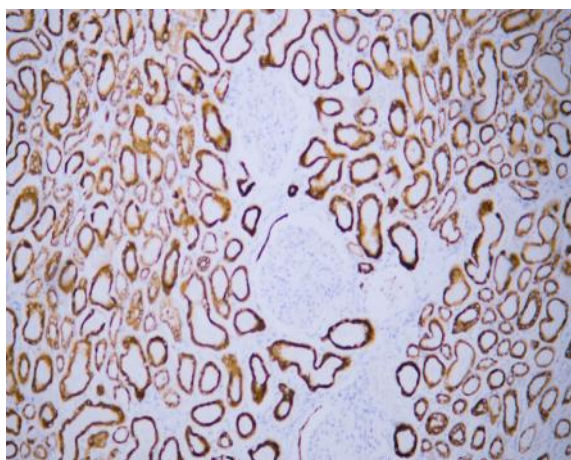
**Subcellular Location :** Cytoplasmic, Membranous

**Expression :** Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma.

## Products Images



Human colon carcinoma tissue was stained with Anti-Cytokeratin 18 (ABT-CK18) Antibody



Human kidney tissue was stained with Anti-Cytokeratin 18 (ABT-CK18) Antibody



Human prostate tissue was stained with Anti-Cytokeratin 18 (ABT-CK18) Antibody