



Cytokeratin 18 (ANT0095R) Rabbit mAb

CatalogNo: ANT8241 **Recombinant** 

Formulation: PBS,50%glycerol,0.05%Proclin 300,0.05%BSA
Quantity : 100 ug/vial

Host Species

- Rabbit
- Human,Mouse,Rat,

Reactivity

- WB,IHC,IF,IP,ELISA

Applications

MW

- 48kD (Calculated)
- 48kD (Observed)

Isotype

- IgG,Kappa

Recommended Dilution Ratios

IHC 1:2000-1:5000

WB 1:1000-1:5000

IF 1:200-1:1000

ELISA 1:5000-1:20000

IP 1:50-1:200,

Storage

Storage* -15°C to -25°C/1 year(Do not lower than -25°C)

Basic Information

Clonality Monoclonal

Clone Number ANT0095R

Target Information

Immunogen Information Specificity

Endogenous

Gene name KRT18

Protein Name Keratin type I cytoskeletal 18

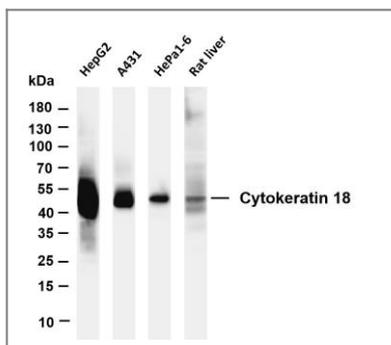
Organism	Gene ID	UniProt ID
Human	3875;	P05783;
Mouse	16668;	P05784;
Rat	294853;	Q5BJY9;

Cellular Localization Cytoplasm

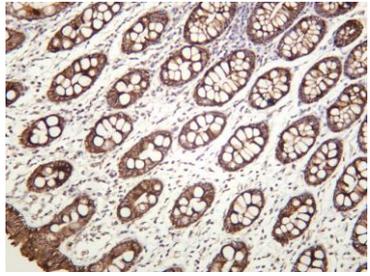
Tissue specificity Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma.

Function Disease:Defects in KRT18 are a cause of cryptogenic cirrhosis [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).,ANTM: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 caspase-3, caspase-6 or caspase-7.,similarity:Belongs to the intermediate filament family.,subunit:Heterotetramer of two type I and two type II keratins. Keratin-18 associates with keratin-8. Interacts with the thrombin-antithrombin complex (By similarity). Interacts with PNN, HCV core protein and mutated CFTR. Interacts with YWHAЕ, YWHAH and YWHAZ only when phosphorylated. Interacts with DNAJB6, TCHP and TRADD.,tissue specificity:Expressed in colon, placenta, liver and very weakly in exocervix. Increased expression observed in lymph nodes of breast carcinoma.,

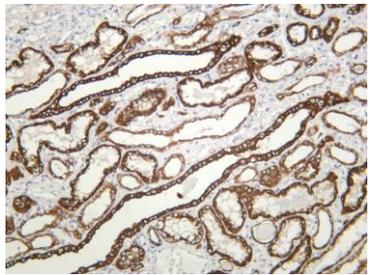
Validation Data



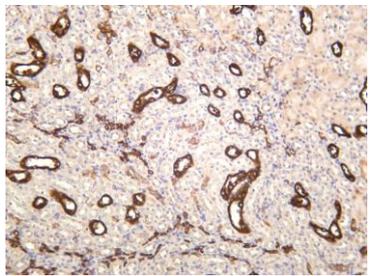
Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-Cytokeratin 18 (ANT0095R) antibody. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody. Lane 1: HepG2 Lane 2: A431 Lane 3: Hepa1-6 Lane 4: Rat liver
Predicted band size: 48kDa Observed band size: 48kDa



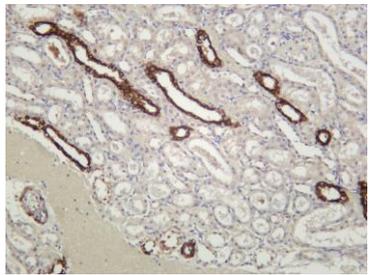
Human colon was stained with anti-Cytokeratin 18 (ANT0095R) rabbit antibody



Human kidney was stained with anti-Cytokeratin 18 (ANT0095R) rabbit antibody



Mouse kidney was stained with anti-Cytokeratin 18 (ANT0095R) rabbit antibody



Rat kidney was stained with anti-Cytokeratin 18 (ANT0095R) rabbit antibody

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