Best Tools for immunology Research

Cytokeratin 18 (ABT-CK18) mouse mAb

Catalog No :	YM4872
Reactivity :	Human;Mouse;Rat;
Applications :	IHC;WB;IF;ELISA
Target :	Cytokeratin 18
Fields :	>>Estrogen signaling pathway;>>Staphylococcus aureus infection
Gene Name :	KRT18 CYK18 PIG46
Protein Name :	Keratin, type I cytoskeletal 18 (Cell proliferation-inducing gene 46 protein) (Cytokeratin-18) (CK-18) (Keratin-18) (K18)
Human Gene Id :	3875
Human Swiss Prot No :	P05783
Immunogen :	Synthesized peptide derived from human Cytokeratin 18 AA range: 200-300
Specificity :	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. In western blotting of Hela and MCF7 cell lysates, the antibod
Formulation :	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source :	Mouse, Monoclonal/IgG2b, kappa
Dilution :	IHC 1:200-1000. WB 1:500-2000. IF 1:100-500. ELISA 1:1000-5000
Purification :	Protein G
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	48kD
Observed Band :	48kD

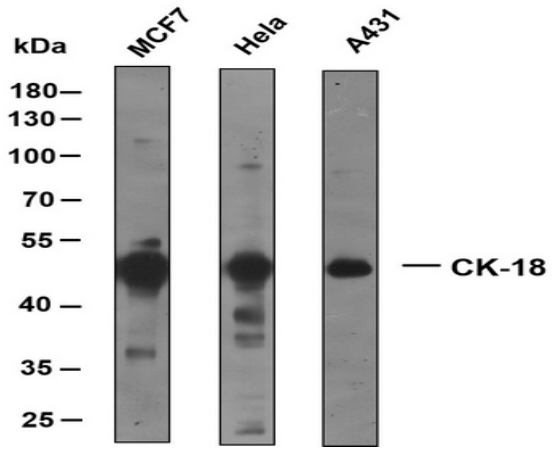
Background : CK18 is a cytokeratin with a molecular weight of 45 kDa. It is mainly expressed in monolayer and pseudostratified epithelium, but negative in stratified squamous epithelium. It is expressed in glandular epithelium, transitional epithelium and hepatocytes. It is mainly used for the diagnosis of adenocarcinoma.

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).,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

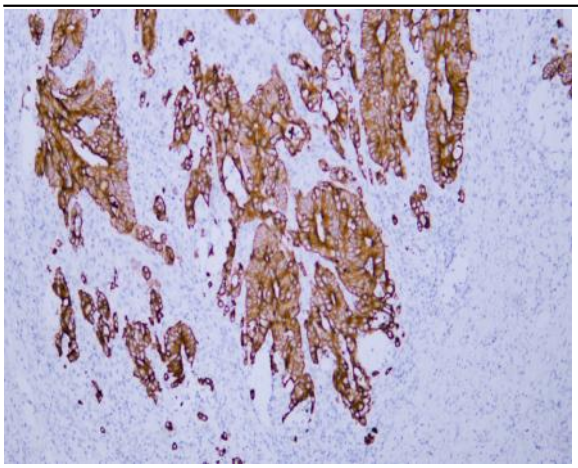
Subcellular Location : Cytoplasmic, Membranous

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

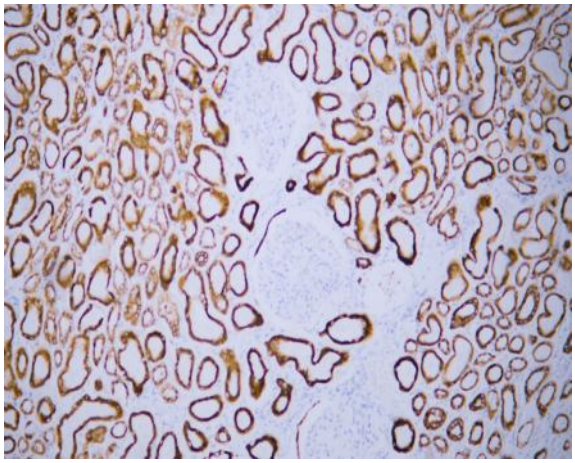
Products Images



Various whole cell lysates were separated by 10% SDS-PAGE, and the membrane was blotted with anti-CK18 antibody at 1ug/ml. The HRP-conjugated anti-Mouse IgG antibody was used to detect the antibody.



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