

Cytokeratin 18 Monoclonal Antibody

Catalog number: 66187-1-Ig

Size: 130 µg/150 µl

Source: Mouse

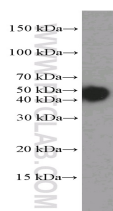
Isotype: IgG1

Synonyms:

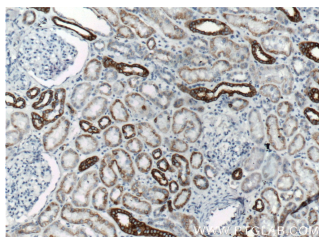
KRT18; CK 18, CYK18,

Cytokeratin 18, K18, keratin 18,

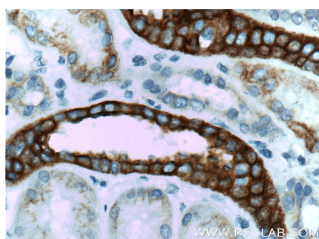
KRT18



HeLa cells were subjected to SDS PAGE followed by western blot with 66187-1-Ig(KRT18 Antibody) at dilution of 1:20000



Immunohistochemistry of paraffin-embedded human kidney tissue slide using 66187-1-Ig(KRT18 Antibody) at dilution of 1:1200 (under 10x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0



Immunohistochemistry of paraffin-embedded human kidney tissue slide using 66187-1-Ig(KRT18 Antibody) at dilution of 1:1200 (under 40x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0

Background

Keratins are a large family of proteins that form the intermediate filament cytoskeleton of epithelial cells, which are classified into two major sequence types. Type I keratins are a group of acidic intermediate filament proteins, including K9–K23, and the hair keratins Ha1–Ha8. Type II keratins are the basic or neutral counterparts to the acidic type I keratins, including K1–K8, and the hair keratins, Hb1–Hb6. KRT18, also named as CYK18, PIG46 and K18, is the most commonly found members of the intermediate filament gene family. KRT18 is a type I keratin which is found primarily in non squamous epithelia and is present in a majority of adenocarcinomas and ductal carcinomas but not in squamous cell carcinomas.

Applications

Tested applications:	ELISA, FC, IF, IHC, WB
Species specificity:	Human; other species not tested.
Calculated Cytokeratin 18 MW:	48 kDa
Observed Cytokeratin 18 MW:	48 kDa
Positive WB detected in	HeLa cells, K-562 cells
Positive IHC detected in	Human kidney tissue, human breast cancer tissue, human lung cancer tissue
Positive IF detected in	HeLa cells, HepG2 cells
Positive FC detected in	MCF-7 cells
Recommended dilution:	WB: 1:5000-1:50000 IHC: 1:100-1:1000 IF: 1:20-1:200 FC: N/A

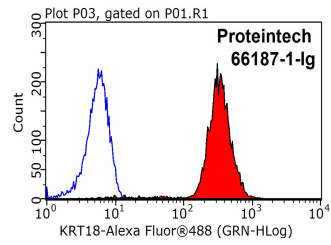
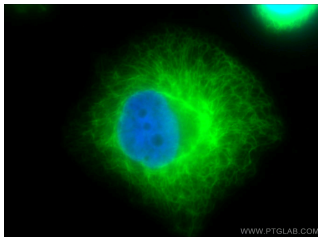
Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	Ag1260
GenBank accession number:	BC000180
Gene ID (NCBI):	3875
Full name:	Keratin 18

Product information

Purification method:	Protein G purification
Storage:	PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Store at -20°C.



Immunofluorescent analysis of HeLa cells using 66187-1-Ig(KRT18 Antibody) at dilution of 1:100 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L)

1X10⁶ MCF-7 cells were stained with 0.2ug KRT18 antibody (66187-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1500.