

For Research Use Only

# Cytokeratin 18 Monoclonal antibody

Catalog Number: 66187-1-Ig

Featured Product

23 Publications



## Basic Information

Catalog Number:

66187-1-Ig

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG1260

GenBank Accession Number:

BC000180

GeneID (NCBI):

3875

UNIPROT ID:

P05783

Full Name:

keratin 18

Calculated MW:

48 kDa

Observed MW:

48 kDa

Purification Method:

Protein G purification

CloneNo.:

1G11C4

Recommended Dilutions:

WB: 1:20000-1:100000

IHC: 1:600-1:2000

IF-P: 1:200-1:800

IF/ICC: 1:200-1:800

FC (Intra): 0.40 ug per 10<sup>6</sup> cells in a 100 µl suspension

## Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, mouse, rat, sheep

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB: HCT 116 cells, HeLa cells, pig skin tissue, A431 cells, HepG2 cells, COLO 320 cells, K-562 cells, 4T1 cells

IHC: human kidney tissue, human breast cancer tissue, human colon cancer tissue, human hepatocellular carcinoma, human liver tissue, human lung cancer tissue, human renal cell carcinoma tissue, human tonsillitis tissue, mouse liver tissue, rat liver tissue

IF-P: mouse testis tissue,

IF/ICC: A549 cells, HUVEC cells, HeLa cells

FC (Intra): HeLa cells,

## Background Information

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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Changmei Yang	36312432	ACS Omega	WB
Qiuli Liu	33009820	J Pathol	IF
Yalan Xu	35841025	Stem Cell Res Ther	IF

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

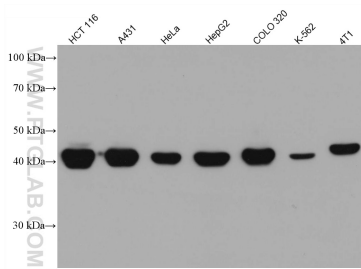
T: 4006900926

E: Proteintech-CN@ptglab.com

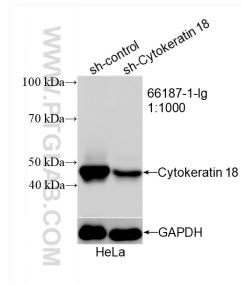
W: ptgcn.com

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

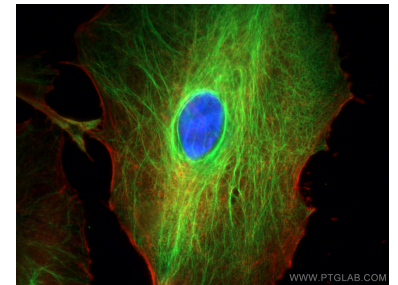
## Selected Validation Data



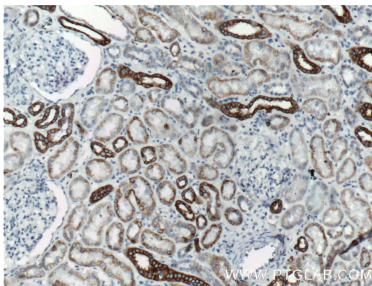
Various lysates were subjected to SDS PAGE followed by western blot with 66187-1-Ig (Cytokeratin 18 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



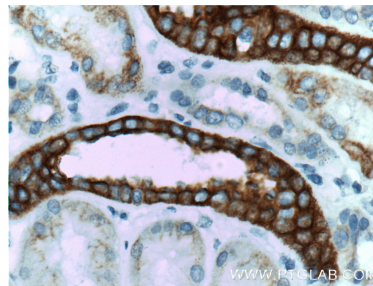
WB result of Cytokeratin 18 antibody (66187-1-Ig; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cytokeratin 18 transfected HeLa cells.



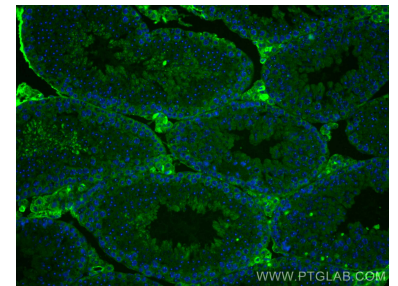
Immunofluorescent analysis of (4% PFA) fixed A549 cells using Cytokeratin 18 antibody (66187-1-Ig, Clone: 1G11C4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



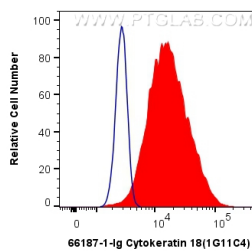
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66187-1-Ig (Cytokeratin 18 antibody at dilution of 1:1200 (under 10x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0.



Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66187-1-Ig (Cytokeratin 18 antibody at dilution of 1:1200 (under 40x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0.



Immunofluorescent analysis of (4% PFA) fixed mouse testis tissue using Cytokeratin 18 antibody (66187-1-Ig, Clone: 1G11C4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



1X10<sup>6</sup> HeLa cells were intracellularly stained with 0.4 ug Anti-Human Cytokeratin 18 (66187-1-Ig, Clone:1G11C4) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG1 Isotype Control (MOPC-21) (65124-1-Ig, Clone: MOPC-21) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.