

For Research Use Only

# Cytokeratin 18 Monoclonal antibody

Catalog Number: 66187-1-Ig **19 Publications**



## Basic Information

<b>Catalog Number:</b> 66187-1-Ig	<b>GenBank Accession Number:</b> BC000180	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3875	<b>CloneNo.:</b> 1G11C4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P05783	<b>Recommended Dilutions:</b> WB 1:20000-1:100000 IHC 1:600-1:2000 IF-P 1:200-1:800 IF/ICC 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> keratin 18	
<b>Immunogen Catalog Number:</b> AG1260	<b>Calculated MW:</b> 48 kDa	
	<b>Observed MW:</b> 48 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IF-P, FC (Intra), ELISA	<b>Positive Controls:</b> <b>WB :</b> HCT 116 cells, pig skin tissue, A431 cells, HeLa cells, HepG2 cells, COLO 320 cells, K-562 cells, 4T1 cells <b>IHC :</b> human kidney tissue, human breast cancer tissue, human colon cancer tissue, human liver tissue, human liver cancer tissue, human lung cancer tissue, human renal cell carcinoma tissue, human tonsillitis tissue, mouse kidney tissue, mouse liver tissue, rat liver tissue <b>IF-P :</b> mouse testis tissue, <b>IF/ICC :</b> A549 cells, HUVEC cells, HeLa cells
<b>Cited Applications:</b> WB, IHC, IF	
<b>Species Specificity:</b> human, mouse, rat, pig	
<b>Cited Species:</b> human, mouse, rat	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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

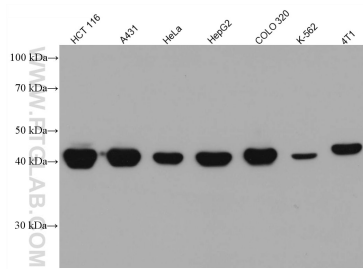
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

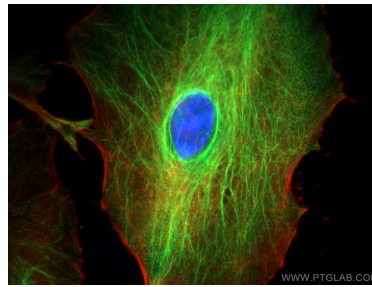
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

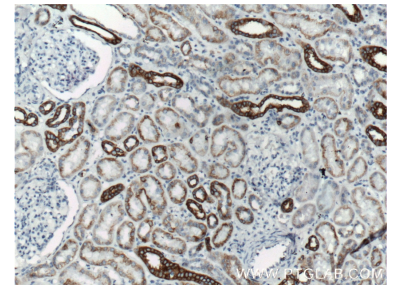
## Selected Validation Data



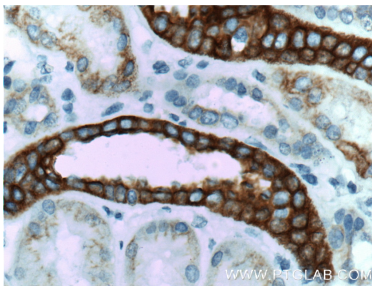
Various lysates were subjected to SDS PAGE followed by western blot with 66187-1-Ig (Cytokeratin 18 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



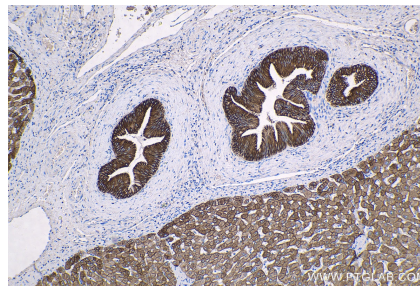
Immunofluorescent analysis of (4% PFA) fixed A549 cells using Cytokeratin 18 antibody (66187-1-Ig, Clone: 1G11C4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



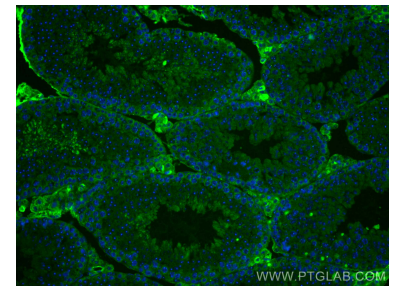
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66187-1-Ig (Cytokeratin 18 antibody at dilution of 1:1200 (under 10x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0.



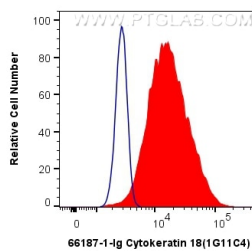
Immunohistochemical analysis of paraffin-embedded human kidney tissue slide using 66187-1-Ig (Cytokeratin 18 antibody at dilution of 1:1200 (under 40x lens). Heat mediated antigen retrieved with Citric acid buffer, pH6.0.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66187-1-Ig (Cytokeratin 18 antibody) at dilution of 1:2400 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



$1 \times 10^6$  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 (PF00011-C).