

For Research Use Only

Cytokeratin 18 Monoclonal antibody



Catalog Number: 66187-1-Ig

12 Publications

Basic Information

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

Applications

Tested Applications:
FC, IF, IHC, WB, ELISA

Cited Applications:
FC, IF, IHC, WB

Species Specificity:
human, mouse, rat, pig

Cited Species:
human, mouse

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, pig skin tissue, A431 cells, HeLa cells, HepG2 cells, COLO 320 cells, K-562 cells, 4T1 cells

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

IF: A549 cells, HepG2 cells, HeLa cells, HUVEC cells, mouse testis tissue

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

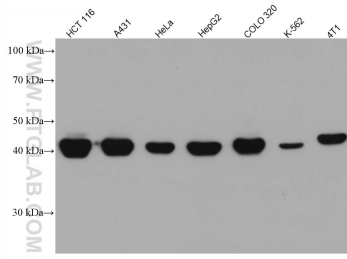
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

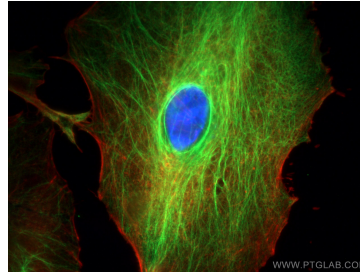
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

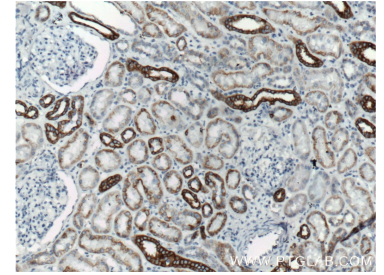
Selected Validation Data



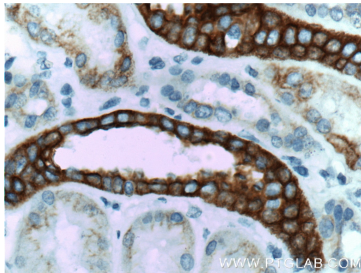
Various lysates were subjected to SDS PAGE followed by western blot with 66187-1-Ig (Cytokeratin 18 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



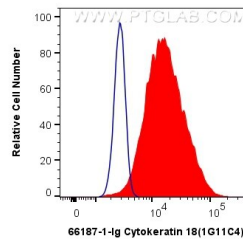
Immunofluorescent analysis of (4% PFA) fixed A549 cells using Cytokeratin 18 antibody (66187-1-Ig, Clone: 1G11C4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).



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.



1×10^6 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).