

For Research Use Only

# Cytokeratin 18 Polyclonal antibody

Catalog Number:10830-1-AP

116 Publications



## Basic Information

<b>Catalog Number:</b> 10830-1-AP	<b>GenBank Accession Number:</b> BC000180	<b>Purification Method:</b> Antigen affinity purification
<b>Concentration:</b> 550 ug/ml	<b>GeneID (NCBI):</b> 3875	<b>Recommended Dilutions:</b> WB 1:20000-1:100000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P05783	<b>IHC 1:200-1:1000</b> <b>IF/ICC 1:200-1:800</b>
<b>Isotype:</b> IgG	<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, FC (Intra), IP, ELISA	<b>Positive Controls:</b> <b>WB :</b> A431 cells, HeLa cells, K-562 cells, MCF-7 cells, MDA-MB-231 cells, mouse liver tissue, rat liver tissue <b>IP :</b> A431 cells, <b>IHC :</b> human breast cancer tissue, human appendicitis tissue, human colon cancer tissue, human endometrial cancer tissue, human kidney tissue, human liver cancer tissue, human lung cancer tissue, human ovary tumor tissue, human pancreas cancer tissue, human prostate hyperplasia tissue, human renal cell carcinoma tissue, human stomach cancer tissue, human tonsillitis tissue, mouse liver tissue, rat liver tissue
<b>Cited Applications:</b> WB, IHC, IF	<b>IF/ICC :</b> HepG2 cells, HeLa cells
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, mouse, rat, pig, monkey, bovine, sheep, goat, duck	

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

## 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
Ahmed Ghallab	34685496	Cells	IHC
Linlin Zhang	32954430	J Anim Sci	IF
Wenbin Xu	33061289	Drug Des Devel 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

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

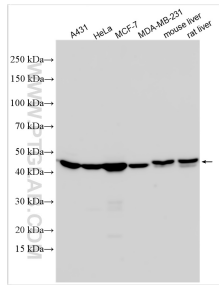
T: 4006900926

E: Proteintech-CN@ptglab.com

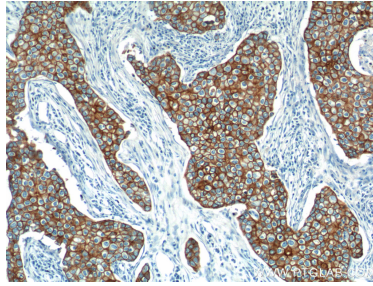
W: ptgcn.com

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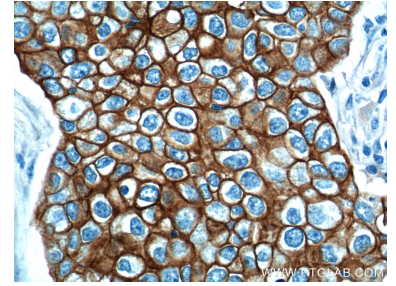
## Selected Validation Data



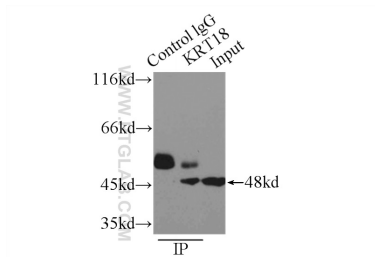
Various lysates were subjected to SDS PAGE followed by western blot with 10830-1-AP (Cytokeratin 18 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours.



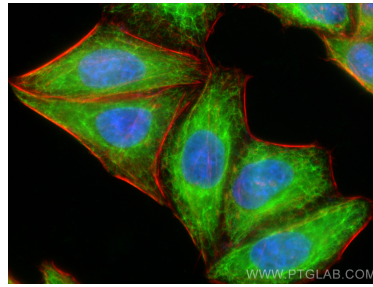
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10830-1-AP (Cytokeratin 18 antibody) at dilution of 1:1000 (under 10x lens).



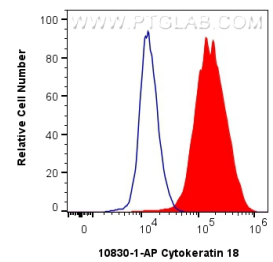
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 10830-1-AP (Cytokeratin 18 antibody) at dilution of 1:1000 (under 40x lens).



IP result of anti-Cytokeratin 18 (IP:10830-1-AP, 3ug; Detection:10830-1-AP 1:2000) with A431 cells lysate 3300ug.



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using Cytokeratin 18 antibody (10830-1-AP) at dilution of 1:400 and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.8 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



$1 \times 10^6$  HeLa cells were intracellularly stained with 0.8 ug Cytokeratin 18 Polyclonal antibody (10830-1-AP) and CoraLite@488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.8 ug Rabbit IgG control Rabbit PolyAb (30000-0-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).