

## Cytokeratin 5 Monoclonal antibody

Catalog Number: 66727-1-Ig 7 Publications

## Basic Information

<b>Catalog Number:</b> 66727-1-Ig	<b>GenBank Accession Number:</b> BC024292	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 3852	<b>CloneNo.:</b> 1A1C5
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P13647	<b>Recommended Dilutions:</b> WB 1:20000-1:100000 IHC 1:5000-1:20000 IF 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> keratin 5	
<b>Immunogen Catalog Number:</b> AG24184	<b>Calculated MW:</b> 590 aa, 62 kDa	
	<b>Observed MW:</b> 60 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, IHC, WB, ELISA	<b>Positive Controls:</b>
<b>Cited Applications:</b> IF, IHC, WB	<b>WB :</b> HaCaT cells, SKOV-3 cells, mouse skin tissue, MCF-7 cells, A549 cells, A-253 cells, A431 cells, human saliva, pig skin tissue
<b>Species Specificity:</b> Human, mouse, pig	<b>IHC :</b> human tonsillitis tissue, human breast cancer tissue, human breast hyperplasia tissue, human lung cancer tissue, human oesophagus cancer tissue, human cervical cancer tissue, human skin cancer tissue
<b>Cited Species:</b> human, rat, mouse	<b>IF :</b> A431 cells, human oesophagus cancer tissue, human prostate cancer tissue
<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. Keratin expression is highly regulated, tissue specific, and varies according to cell-state. Type I keratins consist of acidic, low molecular weight proteins with MW ranging from 40 kDa (KRT19) to 64 kDa (KRT9). Type 2 keratins consist of basic or neutral, high molecular weight proteins with MW from 52 kDa (KRT8) to 67 kDa (KRT18). Keratin 5, one 58-kD type II keratin, is coexpressed with a 50-kD keratin 14 in stratified squamous epithelia. Keratin 5, one 58-kD type II keratin, is coexpressed with a 50-kD tyk14 in stratified squamous epithelia.

## Notable Publications

Author	Pubmed ID	Journal	Application
Kui Xiao	34714841	PLoS One	WB
Mie Naruse	34912374	Front Genet	IHC
Xin-Xing Lei	32382038	Cell Death Dis	WB

## 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.

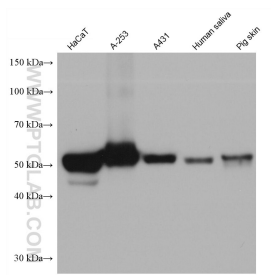
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 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](mailto:proteintech@ptglab.com)  
 W: [ptglab.com](http://ptglab.com)

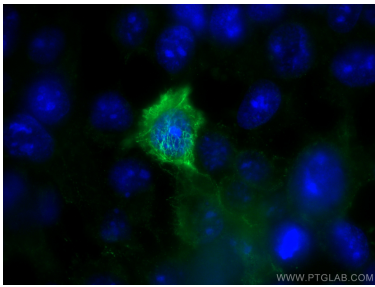
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

Selected Validation Data

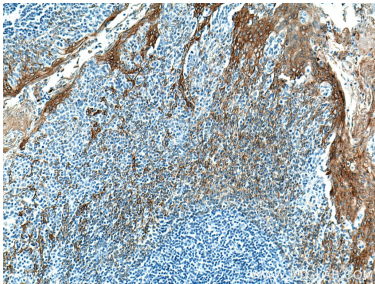


Various lysates were subjected to SDS PAGE followed by western blot with 66727-1-Ig (Cytokeratin 5 antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.

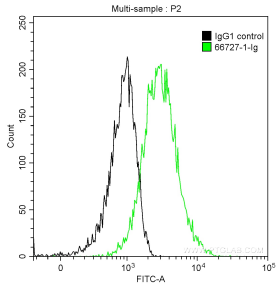
Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66727-1-Ig (Cytokeratin 5 antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using Cytokeratin 5 antibody (66727-1-Ig, Clone: 1A1C5 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66727-1-Ig (Cytokeratin 5 antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> A431 cells were intracellularly stained with 0.2 ug Anti-Human Cytokeratin 5 (66727-1-Ig, Clone:1A1C5) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH.