

For Research Use Only

# Cytokeratin 14 Polyclonal antibody

Catalog Number: 22221-1-AP

1 Publications



## Basic Information

<b>Catalog Number:</b> 22221-1-AP	<b>GenBank Accession Number:</b> BC002690	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 300 µg/ml by Nanodrop and 233 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3861	<b>Recommended Dilutions:</b> WB 1:500-1:2000 IP 0.5-4.0 ug for IP and 1:500-1:2000 for WB
<b>Source:</b> Rabbit	<b>Full Name:</b> keratin 14	<b>IHC 1:50-1:500</b> <b>IF 1:50-1:500</b>
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 472 aa, 52 kDa	
<b>Immunogen Catalog Number:</b> AG17559	<b>Observed MW:</b> 52 kDa	

## Applications

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

**Cited Applications:**  
WB

**Species Specificity:**  
human, mouse

**Cited Species:**  
hamster, human

**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:** mouse skin tissue,

**IP:** mouse skin tissue,

**IHC:** human skin tissue, human lung cancer tissue, human breast cancer tissue, human cervical cancer tissue

**IF:** HepG2 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. Keratin 14 is a type I cytokeratin. It is usually found as a heterotetramer with keratin 5. Keratins K14 and K5 have long been considered to be biochemical markers of the stratified squamous epithelia, including epidermis. This antibody is specifically against KRT14.

## Notable Publications

Author	Pubmed ID	Journal	Application
S Vijayalingam	24874842	Cancer Gene Ther	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

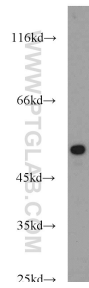
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

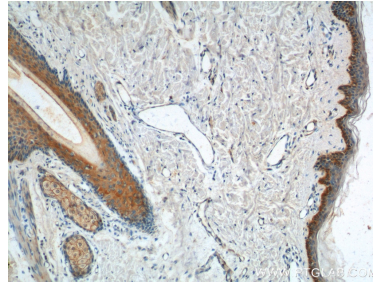
E: proteintech@ptglab.com  
W: ptglab.com

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

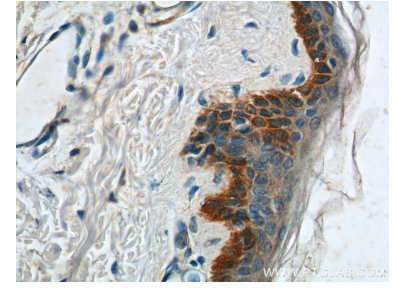
## Selected Validation Data



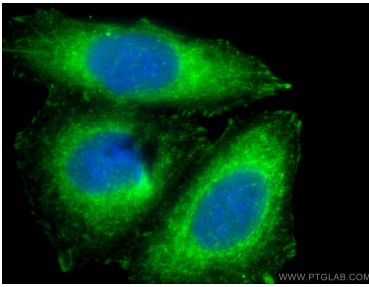
mouse skin tissue were subjected to SDS PAGE followed by western blot with 22221-1-AP (Cytokeratin 14 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



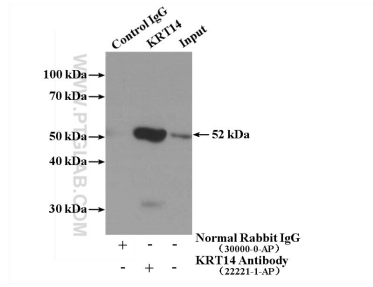
Immunohistochemical analysis of paraffin-embedded human skin tissue slide using 22221-1-AP (Cytokeratin 14 antibody at dilution of 1:200 (under 10x lens).



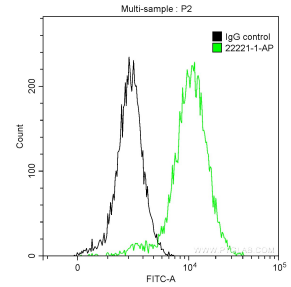
Immunohistochemical analysis of paraffin-embedded human skin tissue slide using 22221-1-AP (Cytokeratin 14 antibody at dilution of 1:200 (under 40x lens).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using 22221-1-AP (Cytokeratin 14 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



IP Result of anti-Cytokeratin 14 (IP:22221-1-AP, 4ug; Detection:22221-1-AP 1:1000) with mouse skin tissue lysate 3200ug.



1X10<sup>6</sup> A431 cells were intracellularly stained with 0.2 ug Anti-Human Cytokeratin 14 (22221-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH.