

For Research Use Only

# Cytokeratin 14 Polyclonal antibody

Catalog Number: 10143-1-AP

Featured Product

80 Publications



## Basic Information

### Catalog Number:

10143-1-AP

### Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG0188

### GenBank Accession Number:

BC002690

### GeneID (NCBI):

3861

### UNIPROT ID:

P02533

### Full Name:

keratin 14

### Calculated MW:

472 aa, 52 kDa

### Observed MW:

47-50 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:500-1:2000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:20-1:200

IF/ICC 1:200-1:800

## Applications

### Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat

**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: A431 cells, rat skin tissue

IP: A431 cells,

IHC: human lung cancer tissue, human cervical cancer tissue, human breast cancer tissue, human skin tissue, human skin cancer tissue, human oesophagus cancer tissue, mouse skin tissue

IF/ICC: HaCaT cells, HeLa cells, HepG2 cells, mouse olfactory epithelium 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. 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.

## Notable Publications

Author	Pubmed ID	Journal	Application
Vlasta Lungova	31551422	Nat Commun	IF
Zichun Gu	28975248	JAMA Facial Plast Surg	IHC
Zhen-Huang Chen	32918999	Mol Cell Neurosci	IHC

## 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

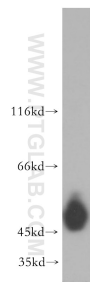
For technical support and original validation data for this product please contact:

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

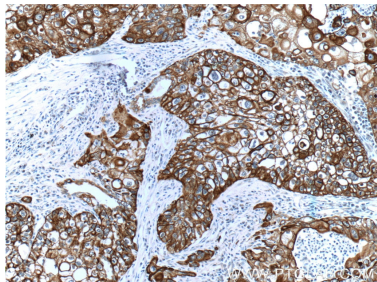
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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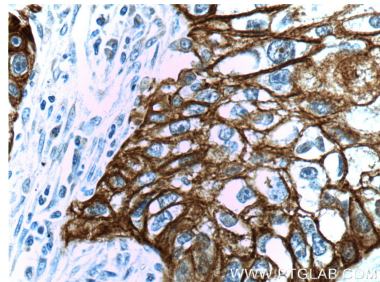
Selected Validation Data



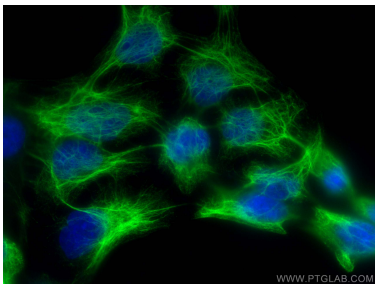
A431 cells were subjected to SDS PAGE followed by western blot with 10143-1-AP (Cytokeratin 14 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



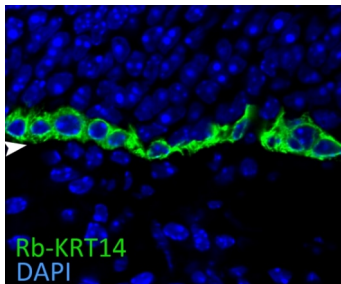
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10143-1-AP (Cytokeratin 14 antibody at dilution of 1:200 (under 10x lens).



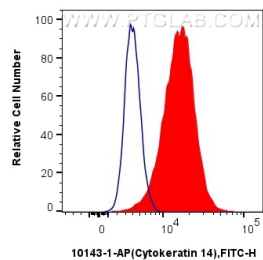
Immunohistochemical analysis of paraffin-embedded human lung cancer tissue slide using 10143-1-AP (Cytokeratin 14 antibody at dilution of 1:200 (under 40x lens).



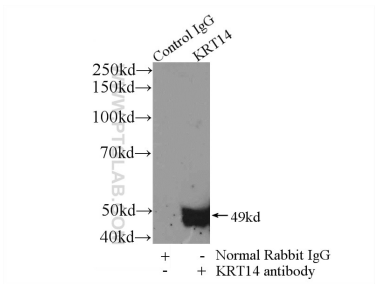
Immunofluorescent analysis of (-20°C Methanol) fixed HaCaT cells using Cytokeratin 14 antibody (10143-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L).



IF result of CK14 (10143-1-AP, 1:400) with 1% PLP fixed basal quiescent stem cells of the adult mouse olfactory epithelium. (Green: CK14; Blue: DAPI). Basal lamina is marked by an arrow head. By Brian Lin, Tufts University.



1X10<sup>6</sup> A431 cells were intracellularly stained with 0.4 ug Anti-Human Cytokeratin 14 (10143-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Rabbit IgG control Rabbit PolyAb (30000-O-AP) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



IP result of anti-Cytokeratin 14 (IP:10143-1-AP, 3ug; Detection:10143-1-AP 1:1000) with A431 cells lysate 1200ug.