

## Cytokeratin 4 Polyclonal antibody

Catalog Number: 16572-1-AP

8 Publications

## Basic Information

## Catalog Number:

16572-1-AP

## Size:

450 ug/ml

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG9854

## GenBank Accession Number:

BC042174

## GeneID (NCBI):

3851

## UNIPROT ID:

P19013

## Full Name:

keratin 4

## Calculated MW:

534 aa, 57 kDa

## Observed MW:

57 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:500-1:1000

IHC 1:50-1:500

IF-P 1:50-1:500

IF/ICC 1:200-1:800

## Applications

## Tested Applications:

WB, IHC, IF/ICC, IF-P, ELISA

## Cited Applications:

WB, IHC, IF

## Species Specificity:

human, mouse

## 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 : A431 cells, human bladder tissue

IHC : human cervical cancer tissue, human bowen disease

IF-P : mouse skin tissue,

IF/ICC : A431 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 4 is a type II cytotkeratins. It is specifically found in differentiated layers of the mucosal and esophageal epithelia together with keratin 13.

## Notable Publications

Author	Pubmed ID	Journal	Application
Sandra Ruiz García	31558434	Development	IF
Ziv Schwartz	31473371	Ann Diagn Pathol	IHC
Lindsey W Plasschaert	30069046	Nature	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

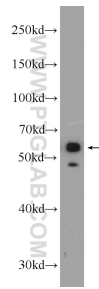
For technical support and original validation data for this product please contact:

T: 4006900926

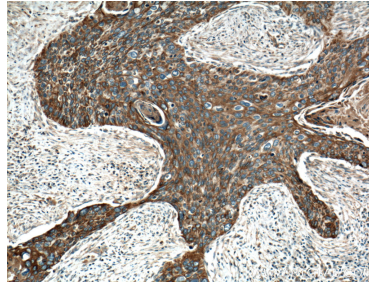
E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

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

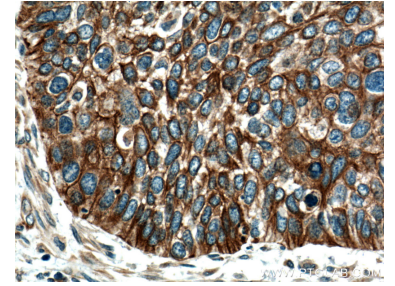
## Selected Validation Data



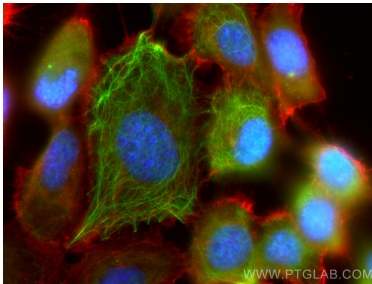
A431 cells were subjected to SDS PAGE followed by western blot with 16572-1-AP (Cytokeratin 4 antibody at dilution of 1:600 incubated at room temperature for 1.5 hours.



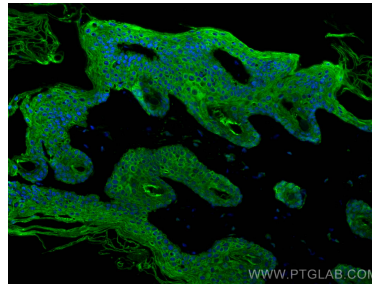
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 16572-1-AP (Cytokeratin 4 antibody at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 16572-1-AP (Cytokeratin 4 antibody at dilution of 1:200 (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 4 antibody (16572-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CoraLite®594 Beta Actin antibody (CL594-66009, Clone: 2D4H5, red).



Immunofluorescent analysis of (4% PFA) fixed mouse skin tissue using Cytokeratin 4 antibody (16572-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).