

For Research Use Only

# Cytokeratin 14 Recombinant antibody

Catalog Number: 82824-1-RR

Featured Product



## Basic Information

**Catalog Number:**

82824-1-RR

**Size:**

600 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG17559

**GenBank Accession Number:**

BC002690

**GeneID (NCBI):**

3861

**UNIPROT ID:**

P02533

**Full Name:**

keratin 14

**Calculated MW:**

472 aa, 52 kDa

**Observed MW:**

52 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

1L19

**Recommended Dilutions:**

WB 1:2000-1:12000

IHC 1:400-1:1600

IF/ICC 1:50-1:500

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, ELISA

**Species Specificity:**

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 : mouse skin tissue, A431 cells, rat skin tissue

IHC : human oesophagus cancer tissue, Human bowens disease

IF/ICC : A431 cells,

## Background Information

Cytokeratin 14, one of about 20 different cytokeratin isotypes of human cells, is the intermediate filament protein characteristic of epithelial cells. Cytokeratin 14 is expressed in the basal compartment of all stratified squamous epithelia. In various kinds of human tumors, the appearance and increasing expression of Cytokeratin 14 were strikingly associated with higher grade and stage of carcinoma, with varying degrees of unfavorable prognosis. In lung squamous cell carcinoma(LSCC), Cytokeratin 14 was expressed in the tumor cell nests showing stromal invasion with fibrosis and lymph node metastases, indicating that Cytokeratin 14 involved in proliferation and metastasis of LSCC. Cytokeratin 14 expression is sometimes used in diagnosis of myoepithelioma and intraductal vs. invasive ductal carcinoma of the breast.

## 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:

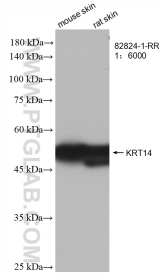
T: 4006900926

E: Proteintech-CN@ptglab.com

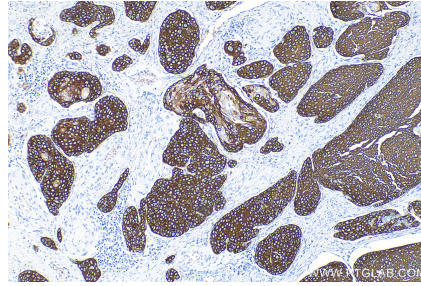
W: ptgcn.com

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

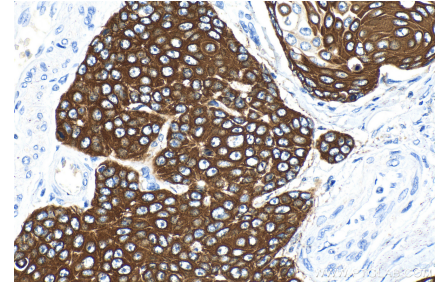
## Selected Validation Data



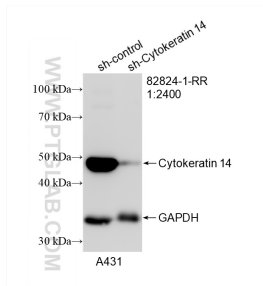
Various lysates were subjected to SDS PAGE followed by western blot with 82824-1-RR (Cytokeratin 14 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



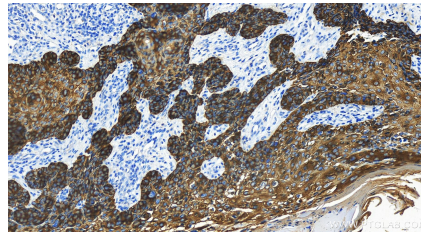
Immunohistochemical analysis of paraffin-embedded human oesophagus cancer tissue slide using 82824-1-RR (Cytokeratin 14 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



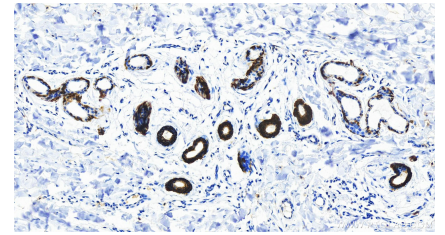
Immunohistochemical analysis of paraffin-embedded human oesophagus cancer tissue slide using 82824-1-RR (Cytokeratin 14 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



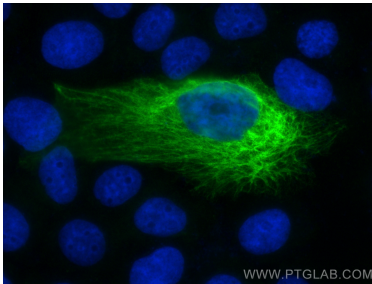
WB result of Cytokeratin 14 antibody (82824-1-RR; 1:2400; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cytokeratin 14 transfected A431 cells.



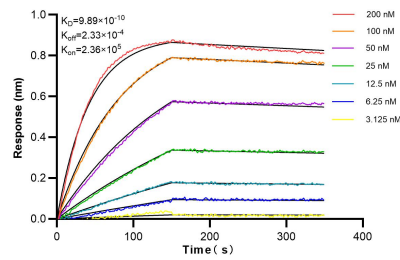
Immunohistochemical analysis of paraffin-embedded human brown disease slide using 82824-1-RR (Cytokeratin 14 antibody) at dilution of 1:1200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human brown disease slide using 82824-1-RR (Cytokeratin 14 antibody) at dilution of 1:1200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed A431 cells using Cytokeratin 14 antibody (82824-1-RR, Clone: 1L19) at dilution of 1:200 and Multi-rAb CoraLite @ Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002).



Biolayer interferometry (BLI) kinetic assays of 82824-1-RR against Human Cytokeratin 14 were performed. The affinity constant is 0.989 nM.