

For Research Use Only

Cytokeratin 14 Recombinant antibody

Catalog Number: 82824-1-RR

Featured Product



Basic Information

Catalog Number:

82824-1-RR

Size:

100ul, Concentration: 600 ug/ml by Nanodrop;

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, mouse skin 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

*** 20ul sizes contain 0.1% BSA

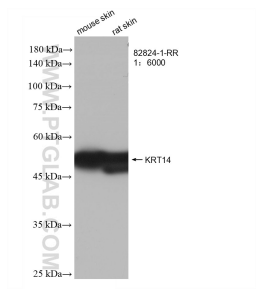
For technical support and original validation data for this product please contact:

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

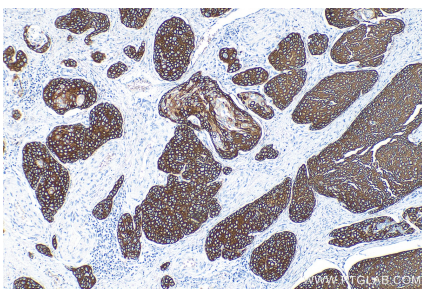
E: proteintech@ptglab.com
W: ptglab.com

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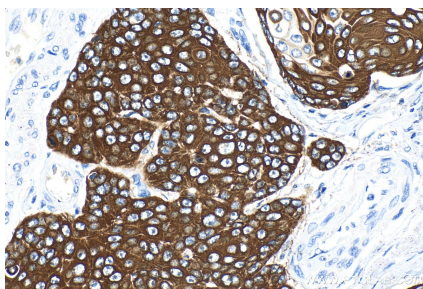
Selected Validation Data



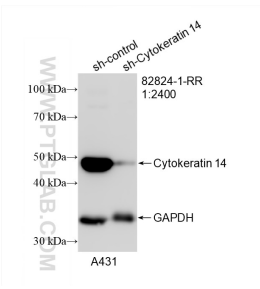
Various lysates were subjected to SDS PAGE followed by western blot with 82824-1-RR (Cytokeratin 14 antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



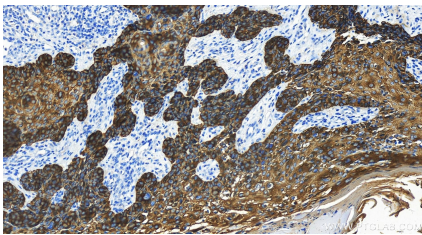
Immunohistochemical analysis of paraffin-embedded human oesophagus cancer tissue slide using 82824-1-RR (Cytokeratin 14 antibody) at dilution of 1:800 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



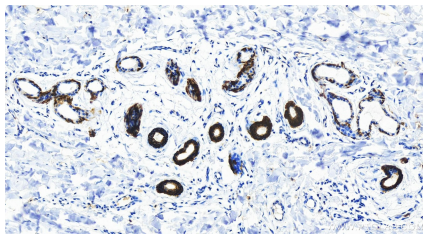
Immunohistochemical analysis of paraffin-embedded human oesophagus cancer tissue slide using 82824-1-RR (Cytokeratin 14 antibody) at dilution of 1:800 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



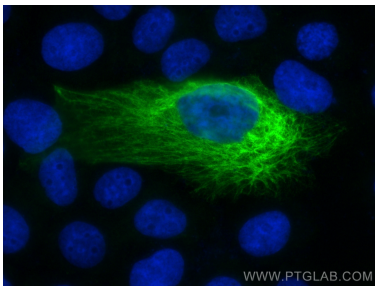
WB result of Cytokeratin 14 antibody (82824-1-RR; 1:2400; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cytokeratin 14 transfected A431 cells.



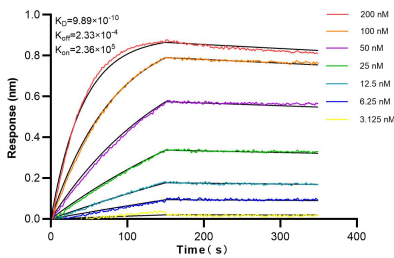
Immunohistochemical analysis of paraffin-embedded human brown disease slide using 82824-1-RR (Cytokeratin 14 antibody) at dilution of 1:1200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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.