

For Research Use Only

# Cytokeratin 13 Monoclonal antibody

Catalog Number: 66684-1-Ig **Featured Product**



## Basic Information

<b>Catalog Number:</b> 66684-1-Ig	<b>GenBank Accession Number:</b> BC002661	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 1500 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3860	<b>CloneNo.:</b> 1E10G2
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P13646	<b>Recommended Dilutions:</b> WB 1:5000-1:50000 IHC 1:1000-1:4000 IF-P 1:200-1:800
<b>Isotype:</b> IgG1	<b>Full Name:</b> keratin 13	
<b>Immunogen Catalog Number:</b> AG0217	<b>Calculated MW:</b> 50 kDa	
	<b>Observed MW:</b> 50 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF-P, ELISA

**Species Specificity:**  
human, 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

**IHC :** human cervical cancer tissue, human oesophagus cancer tissue

**IF-P :** human cervical cancer 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. This type I cytokeratin is paired with keratin 4 and expressed in the suprabasal layers of non-cornified stratified epithelia. The Keratin 13 (KRT13) gene encodes a type I acidic keratin which is expressed in the differentiated cells of non-cornified stratified squamous epithelia. This antibody can react with Cytokeratin 15.

## 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**

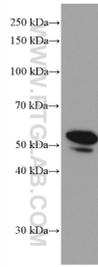
For technical support and original validation data for this product please contact:

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

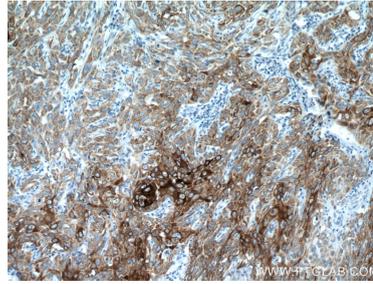
E: proteintech@ptglab.com  
W: ptglab.com

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

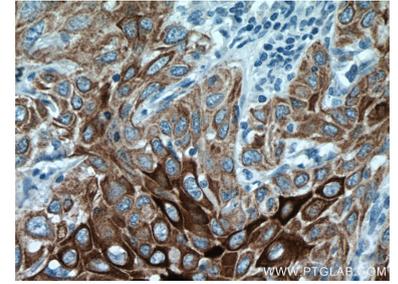
## Selected Validation Data



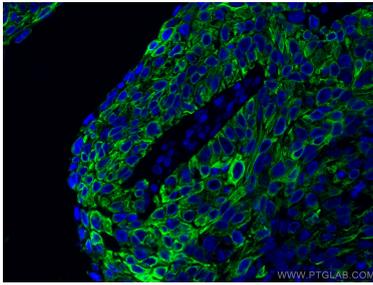
A431 cells were subjected to SDS PAGE followed by western blot with 66684-1-Ig (KRT13 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



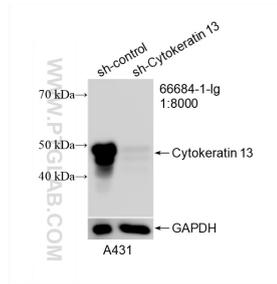
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 66684-1-Ig (KRT13 antibody) at dilution of 1:2000 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



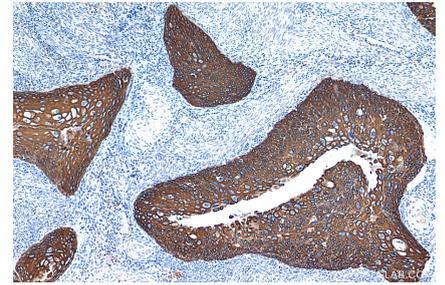
Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 66684-1-Ig (KRT13 antibody) at dilution of 1:2000 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human cervical cancer tissue using Cytokeratin 13 antibody (66684-1-Ig, Clone: 1E10G2 ) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



WB result of Cytokeratin 13 antibody (66684-1-Ig; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Cytokeratin 13 transfected A431 cells.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 66684-1-Ig (Cytokeratin 13 antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).