

For Research Use Only

# Cytokeratin 19 Polyclonal antibody

Catalog Number: 14965-1-AP

Featured Product

10 Publications



## Basic Information

<b>Catalog Number:</b> 14965-1-AP	<b>GenBank Accession Number:</b> BC002539	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul, Concentration: 1000 µg/ml by Nanodrop and 427 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 3880	<b>Recommended Dilutions:</b> WB 1:500-1:3000 IHC 1:1000-1:6400 IF 1:200-1:800
<b>Source:</b> Rabbit	<b>Full Name:</b> keratin 19	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 44 kDa	
<b>Immunogen Catalog Number:</b> AG6830	<b>Observed MW:</b> 40 kDa, 46 kDa	

## Applications

**Tested Applications:**  
FC, IF, IHC, WB, ELISA

**Cited Applications:**  
IF, IHC, WB

**Species Specificity:**  
human, mouse, rat

**Cited Species:**  
human, monkey, 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:** MCF7 cells, HeLa cells, HepG2 cells, BxPC-3 cells

**IHC:** human colon tissue, human lung cancer tissue, human liver cancer tissue, human cervical cancer tissue, rat colon tissue, mouse colon tissue

**IF:** HeLa cells, 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. KRT19, one of type I keratins, is specifically expressed in the periderm, the transiently superficial layer that envelopes the developing epidermis. Due to its high sensitivity, KRT19 is the most used marker for detection of tumor cells disseminated in lymph nodes, peripheral blood, and bone marrow of breast cancer patients. This antibody, generated against full length KRT19 protein, also recognizes KRT17, another type I keratin homologous to KRT19.

## Notable Publications

Author	Pubmed ID	Journal	Application
Masahiko Itoh	33184034	Biochim Biophys Acta Mol Basis Dis	IF
Nachiket Vartak	26610202	Hepatology	IF
Zhiqiang Tian	36403057	Cancer Cell Int	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

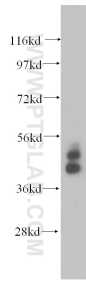
For technical support and original validation data for this product please contact:

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

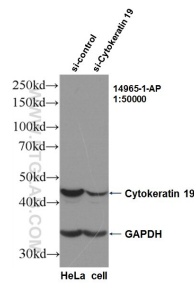
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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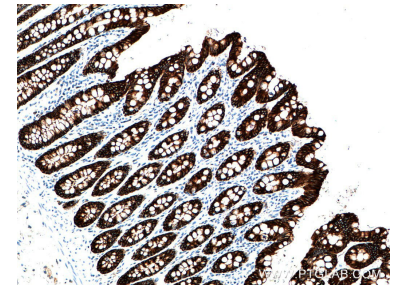
## Selected Validation Data



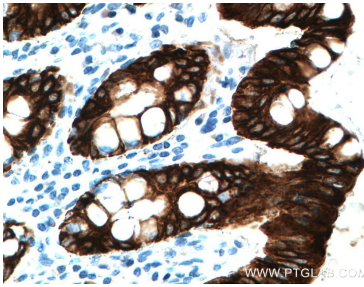
MCF7 cells were subjected to SDS PAGE followed by western blot with 14965-1-AP (Cytokeratin 19 antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



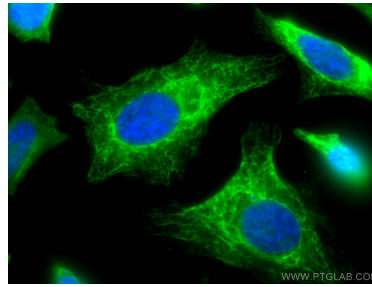
WB result of KRT19 antibody (14965-1-AP, 1:50,000) with si-Control and si-KRT19 transfected HeLa cells.



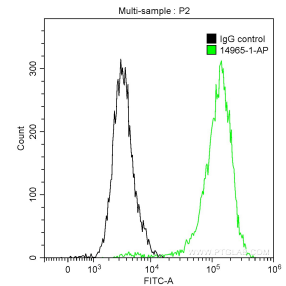
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 14965-1-AP (Cytokeratin 19 antibody) at dilution of 1:6400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 14965-1-AP (Cytokeratin 19 antibody) at dilution of 1:6400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Cytokeratin 19 antibody (14965-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



$1 \times 10^6$  MCF-7 cells were stained with 0.2 ug Anti-Human Cytokeratin 19 (14965-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (green), and 0.2 ug Control Antibody. Cells were fixed with 90% MeOH.