

For Research Use Only

# Cytokeratin 20 Monoclonal antibody

Catalog Number: 60183-1-Ig 5 Publications



## Basic Information

Catalog Number: 60183-1-Ig	GenBank Accession Number: BC031559	Purification Method: Protein A purification
Size: 150ul , Concentration: 1200 ug/ml by Nanodrop and 1000 ug/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 54474	CloneNo.: 4D10A4
Source: Mouse	UNIPROT ID: P35900	Recommended Dilutions: WB 1:500-1:2000 IHC 1:1000-1:51200 IF-P 1:200-1:800 IF/ICC 1:400-1:1600
Isotype: IgG2b	Full Name: keratin 20	
Immunogen Catalog Number: AG11336	Calculated MW: 424 aa, 48 kDa	
	Observed MW: 46 kDa	

## Applications

Tested Applications: WB, IHC, IF/ICC, IF-P, ELISA	Positive Controls: WB : Colo320 cells, COLO 320 cells
Cited Applications: IHC, IF	IHC : human colon tissue, human appendicitis tissue, human colon cancer tissue, human urothelial carcinoma tissue
Species Specificity: human	IF-P : human colon tissue,
Cited Species: human, mouse	IF/ICC : HT-29 cells,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## Background Information

Keratins are a large family of proteins that form the intermediate filament cytoskeleton of epithelial cells. Keratin expression is highly regulated, tissue specific, and varies according to cell-state. Type I keratins consist of acidic, low molecular weight proteins with MW ranging from 40 kDa (KRT19) to 64 kDa (KRT9). Type 2 keratins consist of basic or neutral, high molecular weight proteins with MW from 52 kDa (KRT8) to 67 kDa (KRT18). Keratin 20 is a type I cytokeratin. It is a major cellular protein of mature enterocytes and goblet cells and is specifically found in the gastric and intestinal mucosa.

## Notable Publications

Author	Pubmed ID	Journal	Application
Yoshiya Asano	29032203	Biochem Biophys Res Commun	IF
Yuli Wang	29693040	Cell Mol Gastroenterol Hepatol	IF
Lijun Hu	34093546	Front Immunol	IF

## Storage

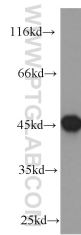
Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

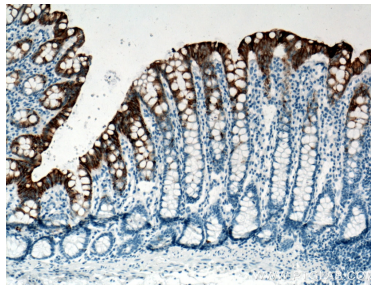
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

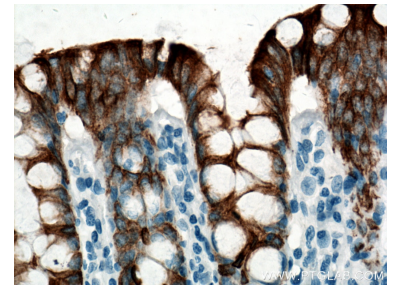
## Selected Validation Data



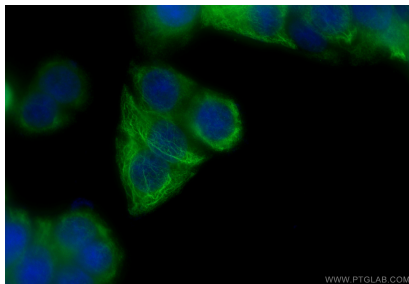
COLO 320 cells were subjected to SDS PAGE followed by western blot with 60183-1-Ig (Cytokeratin 20 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



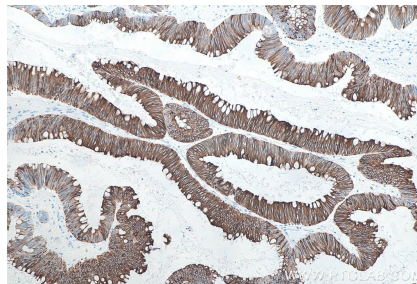
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 60183-1-Ig (Cytokeratin 20 antibody) at dilution of 1:51200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



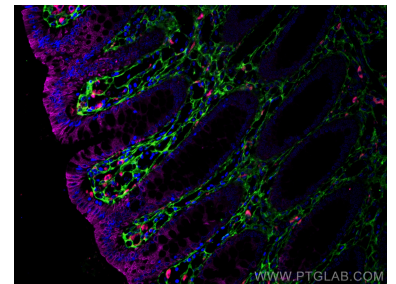
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 60183-1-Ig (Cytokeratin 20 antibody) at dilution of 1:51200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HT-29 cells using Cytokeratin 20 antibody (60183-1-Ig, Clone: 4D10A4) at dilution of 1:800 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 60183-1-Ig (Cytokeratin 20 antibody) at dilution of 1:2000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed human colon tissue using Cytokeratin 20 antibody (60183-1-Ig, Clone: 4D10A4) at dilution of 1:400 and CoraLite®647-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), Collagen Type III (N-terminal) antibody (22734-1-AP, green), CoraLite®594 CD68 antibody (CL594-25747, red).