

Cytokeratin 19 Polyclonal antibody

Catalog Number: 10712-1-AP

122 Publications

Basic Information

Catalog Number: 10712-1-AP	GenBank Accession Number: BC007628	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 3880	Recommended Dilutions: WB 1:3000-1:30000 IHC 1:3000-1:12000 IF 1:200-1:800
Source: Rabbit	Full Name: keratin 19	
Isotype: IgG	Calculated MW: 40 kDa	
Immunogen Catalog Number: AG1085	Observed MW: 44-50 kDa	

Applications

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

Cited Applications:
FC, IF, IHC, WB

Species Specificity:
human, mouse

Cited Species:
human, goat, rat, mouse, pig, dog

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, HepG2 cells, mouse placenta tissue, MCF-7 cells, A549 cells, mouse brain tissue, HT-29 cells

IHC: human colon tissue, human pancreas tissue, human thyroid cancer tissue, mouse liver tissue, human oesophagus cancer tissue, mouse skin tissue, mouse colon tissue, human lung cancer tissue, human breast cancer tissue, human stomach cancer tissue, human skin tissue

IF: HaCaT cells, HeLa cells, HepG2 cells, Retinal organoids

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 19 is a type I cytokeratin. It is a biochemical marker of skin stem cells in vivo and in vitro.

Notable Publications

Author	Pubmed ID	Journal	Application
Takako Tabata	31569508	Vaccines (Basel)	IF
Sandra Ruiz García	31558434	Development	IF
Zichun Gu	28975248	JAMA Facial Plast Surg	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

*** 20ul sizes contain 0.1% BSA

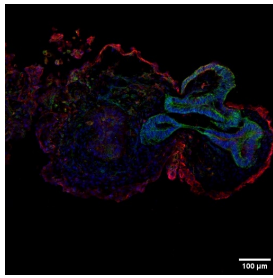
For technical support and original validation data for this product please contact:

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

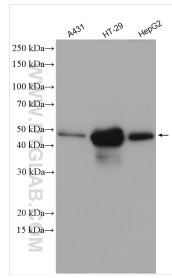
E: proteintech@ptglab.com
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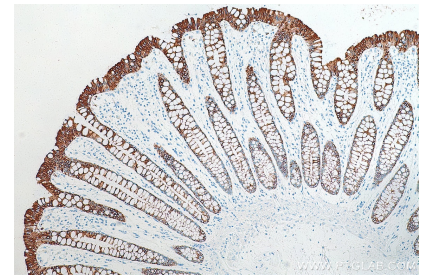
Selected Validation Data



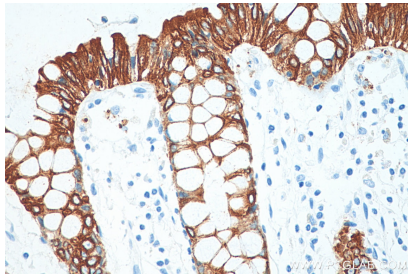
Retinal organoids (day 60) generated from human induced pluripotent stem cells (iPSCs) and fixed with 4% PFA. Stained for Tubulin beta 3/TUJ1 using 66375-1-Ig at 1:500 dilution (green) and Cytokeratin 19 using 10712-1-AP at 1:200 (red). Nuclear stain DAPI (blue). Scale bar = 100 μ m. Data generated by Alessandro Bellapianta at Johannes Kepler Universitat, Austria.



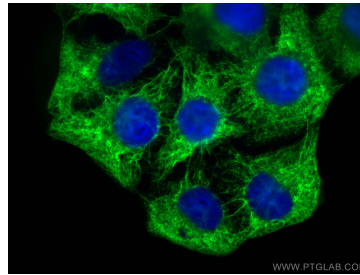
Various lysates were subjected to SDS PAGE followed by western blot with 10712-1-AP (Cytokeratin 19 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



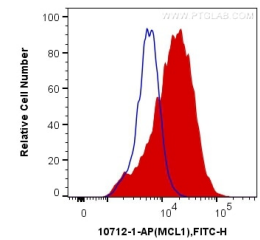
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 10712-1-AP (Cytokeratin 19 antibody) at dilution of 1:6000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 10712-1-AP (Cytokeratin 19 antibody) at dilution of 1:6000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Methanol) fixed HaCaT cells using Cytokeratin 19 antibody (10712-1-AP) at dilution of 1:400 and CoraLite® 488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).



1×10^6 HT-29 cells were intracellularly stained with 0.4 μ g Anti-Human Cytokeratin 19 (10712-1-AP) (red), or 0.4 μ g Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).