

For Research Use Only

Cytokeratin 19 Monoclonal antibody

Catalog Number: 60187-1-Ig

Featured Product

15 Publications



Basic Information

Catalog Number:

60187-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG7407

GenBank Accession Number:

BC002539

GeneID (NCBI):

3880

UNIPROT ID:

P08727

Full Name:

keratin 19

Calculated MW:

44 kDa

Observed MW:

48 kDa

Purification Method:

Protein A purification

CloneNo.:

3G1E4

Recommended Dilutions:

WB: 1:20000-1:100000

IHC: 1:1000-1:51200

IF-P: 1:200-1:800

IF-Fro: 1:200-1:800

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF-P, IF-Fro, FC (Intra), ELISA

Cited Applications:

WB, IHC, IF, FC (Intra)

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, mouse

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: MCF-7 cells, HaCaT cells, PC-3 cells, HeLa cells, T-47D cells, pig colon tissue, rat colon tissue, mouse colon tissue

IHC: human colon tissue, human breast cancer tissue, human lung cancer tissue, human oesophagus cancer tissue, human stomach cancer tissue, human thyroid cancer tissue

IF-P: human breast cancer tissue,

IF-Fro: mouse breast cancer,

FC (Intra): HeLa cells,

Background Information

Cytokeratin 19 (CK19 or KRT19) is a type I (acidic) cytokeratin. It is an intermediate filament protein providing structural rigidity and multipurpose scaffolds in epithelial cells. CK19 is often overexpressed in various cancers (e.g., hepatocellular carcinoma [HCC], pancreatic adenocarcinoma, lung cancer) and serves as a biomarker for hepatic progenitor cells (HPCs) associated with poor prognosis in HCC patients. Additionally, CK19 expression is common in pancreatic and gastrointestinal adenocarcinomas and has been studied as a potential diagnostic and prognostic marker for pancreatic neuroendocrine tumors (PNETs), where positive CK19 expression correlates with poor prognosis. Serum CK19 fragments (e.g., CYFRA 21-1, CK19-2G2) have been investigated as tumor markers for lung and breast cancer, with preoperative levels associated with metastasis and survival.

Notable Publications

Author	Pubmed ID	Journal	Application
Qiu-Zhong Pan	25267273	Stem Cells	WB
Haibo Zhang	34671938	Reprod Sci	IHC
Yuan Li	36251580	Liver Int	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

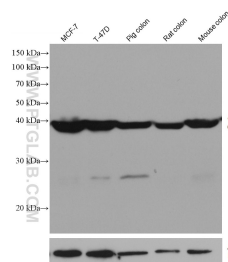
For technical support and original validation data for this product please contact:

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

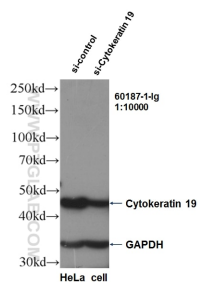
E: proteintech@ptglab.com
W: ptglab.com

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

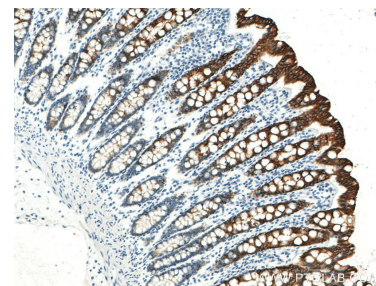
Selected Validation Data



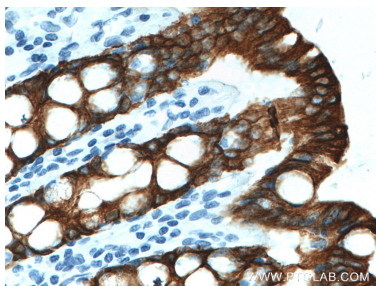
Various lysates were subjected to SDS PAGE followed by western blot with 60187-1-Ig (Cytokeratin 19 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



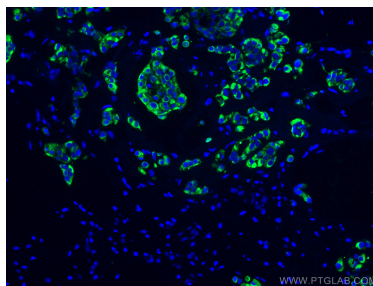
WB result of KRT19 antibody (60187-1-Ig, 1:10,000) with si-Control and si-KRT19 transfected HeLa cells.



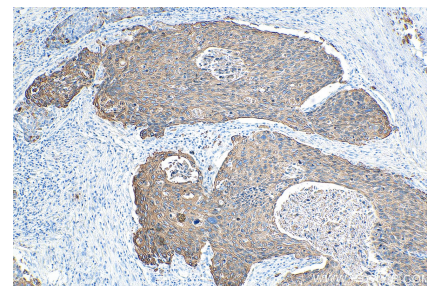
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 60187-1-Ig (Cytokeratin 19 antibody) at dilution of 1:51200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



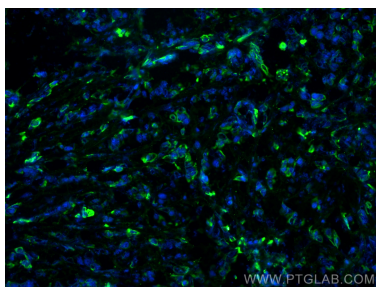
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 60187-1-Ig (Cytokeratin 19 antibody) at dilution of 1:51200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



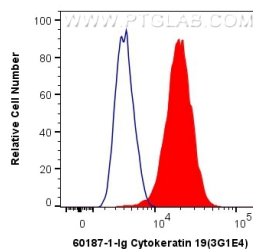
Immunofluorescent analysis of (4% PFA) fixed human breast cancer tissue using Cytokeratin 19 antibody (60187-1-Ig, Clone: 3G1E4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).



Immunohistochemical analysis of paraffin-embedded human oesophagus cancer tissue slide using 60187-1-Ig (Cytokeratin 19 antibody) at dilution of 1:51200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse breast cancer using Cytokeratin 19 antibody (60187-1-Ig, Clone: 3G1E4) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) (SA00013-1).



1X10⁶ HeLa cells were intracellularly stained with 0.4 ug Anti-Human Cytokeratin 19 (60187-1-Ig, Clone:3G1E4) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Mouse IgG2b Isotype Control (MPC-11) (65128-1-Ig, Clone: MPC-11) (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).