

Cytokeratin 19 Monoclonal antibody

Catalog Number: 60187-1-Ig

Featured Product

8 Publications

Basic Information

Catalog Number:

60187-1-Ig

Size:

1000 µg/ml

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 1:200-1:800

Applications

Tested Applications:

FC, IF-P, IHC, WB, ELISA

Cited Applications:

WB, IHC, IF

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 thyroid cancer tissue, human stomach cancer tissue, human lung cancer tissue, human breast cancer tissue, human oesophagus cancer tissue

IF: human breast cancer tissue,

Background Information

The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells. 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.

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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

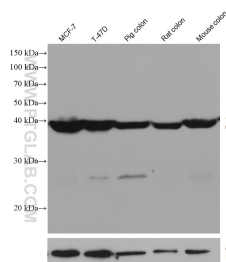
For technical support and original validation data for this product please contact:

T: 4006900926

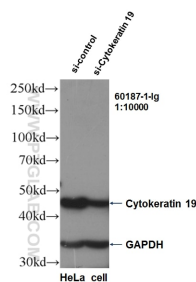
E: Proteintech-CN@ptglab.comW: ptgcn.com

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

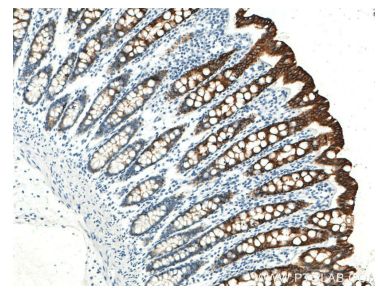
Selected Validation Data



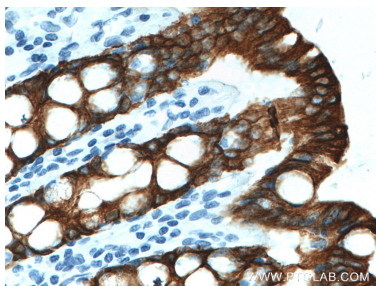
Various lysates were subjected to SDS PAGE followed by western blot with 60187-1-Ig (Cytokeratin 19 antibody) at dilution of 1:50000 incubated at room temperature for 1.5 hours. The membrane was stripped and reblotted with HRP-conjugated Alpha Tubulin Monoclonal antibody (HRP-66031) as loading control.



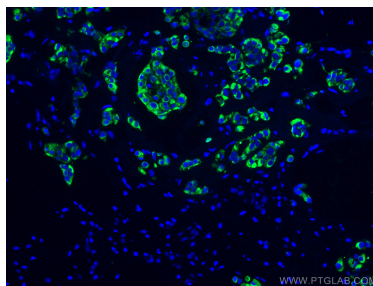
WB result of KRT19 antibody (60187-1-Ig, 1:10,000) with si-Control and si-KRT19 transfected HeLa cells.



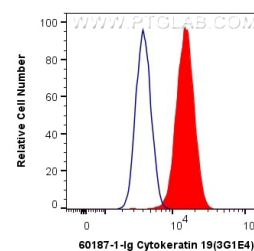
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 60187-1-Ig (Cytokeratin 19 antibody) at dilution of 1:51200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



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).



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).