Leader in Biomolecular Solutions for Life Science

Cytokeratin 19 (KRT19) Rabbit mAb

Catalog No.: A25546

Recombinant | 1 Publications

www.abclonal.com

Basic Information

Observed MW
Refer to figures

Calculated MW
44kDa

Category
Monoclonal Antibodies

Applications
IF/ICC, IF-P, IHC-P, mIHC, FC (intra), ELISA

Cross Reactivity
Human, Mouse, Rat

Clone No.
ARC54260

Background

The protein encoded by this gene is a member of the keratin family. The keratins are intermediate filament proteins responsible for the structural integrity of epithelial cells and are subdivided into cytokeratins and hair keratins. The type I cytokeratins consist of acidic proteins which are arranged in pairs of heterotypic keratin chains. Unlike its related family members, this smallest known acidic cytokeratin is not paired with a basic cytokeratin in epithelial cells. It is specifically expressed in the periderm, the transiently superficial layer that envelopes the developing epidermis. The type I cytokeratins are clustered in a region of chromosome 17q12-q21.

Recommended Dilutions

IF/ICC	1:500 - 1:2000
IF-P	1:200 - 1:800
IHC-P	1:5000 - 1:20000
mIHC	1:2000 - 1:8000
FC (intra)	1:1000 - 1:5000

ELISA
Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
3880

Swiss-Prot
P08727

Immunogen
Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms
K19; CK19; K1CS

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

Product Information

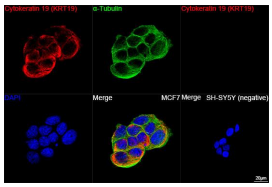
Source
Rabbit

Isotype
IgG

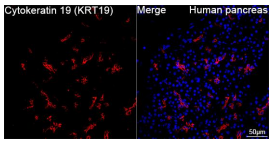
Purity
Affinity purification

Storage
Store at -20°C. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

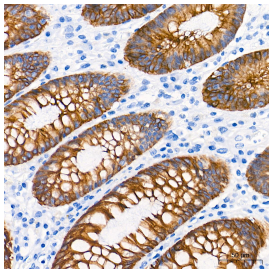
Validation Data



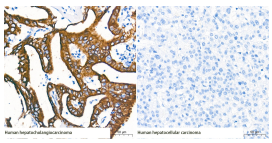
Confocal imaging of MCF7 cells and SH-SY5Y cells (negative) using Cytokeratin 19 (KRT19) Rabbit mAb (A25546, dilution 1:1000) followed by a further incubation with Cy3-conjugated Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) (AS037, dilution 1:800) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



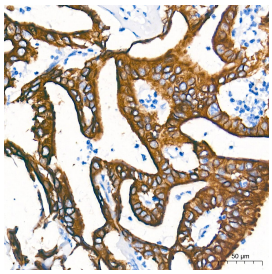
Confocal imaging of paraffin-embedded Human pancreas tissue using Cytokeratin 19 (KRT19) Rabbit mAb (A25546, dilution 1:500) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). High pressure antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



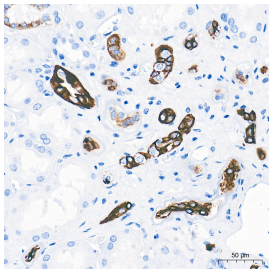
Immunohistochemistry analysis of paraffin-embedded Human colon tissue using Cytokeratin 19 (KRT19) Rabbit mAb (A25546) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



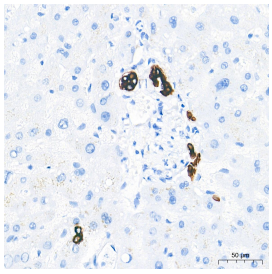
Immunohistochemistry analysis of paraffin-embedded Human hepatocholangiocarcinoma and hepatocellular carcinoma tissue using Cytokeratin 19 (KRT19) Rabbit mAb (A25546) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



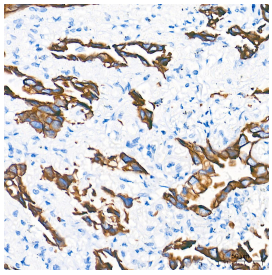
Immunohistochemistry analysis of paraffin-embedded Human hepatocholangiocarcinoma tissue using Cytokeratin 19 (KRT19) Rabbit mAb (A25546) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



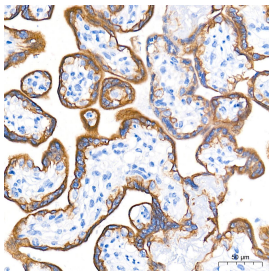
Immunohistochemistry analysis of paraffin-embedded Human kidney tissue using Cytokeratin 19 (KRT19) Rabbit mAb (A25546) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



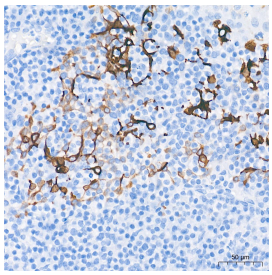
Immunohistochemistry analysis of paraffin-embedded Human liver tissue using Cytokeratin 19 (KRT19) Rabbit mAb (A25546) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



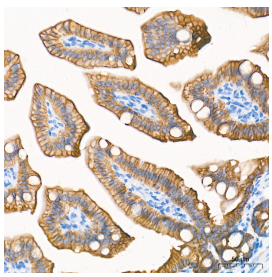
Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using Cytokeratin 19 (KRT19) Rabbit mAb (A25546) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



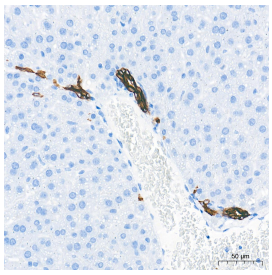
Immunohistochemistry analysis of paraffin-embedded Human placenta tissue using Cytokeratin 19 (KRT19) Rabbit mAb (A25546) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



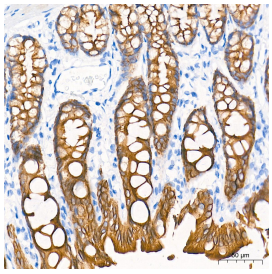
Immunohistochemistry analysis of paraffin-embedded Human tonsil tissue using Cytokeratin 19 (KRT19) Rabbit mAb (A25546) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



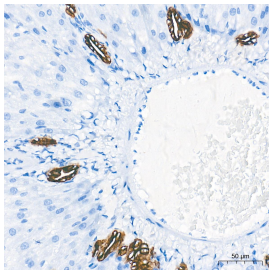
Immunohistochemistry analysis of paraffin-embedded Mouse intestin tissue using Cytokeratin 19 (KRT19) Rabbit mAb (A25546) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



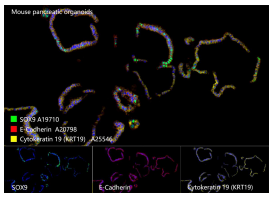
Immunohistochemistry analysis of paraffin-embedded Mouse liver tissue using Cytokeratin 19 (KRT19) Rabbit mAb (A25546) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



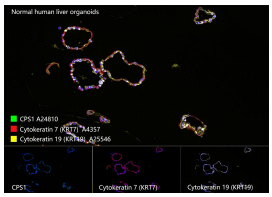
Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using Cytokeratin 19 (KRT19) Rabbit mAb (A25546) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



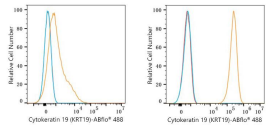
Immunohistochemistry analysis of paraffin-embedded Rat liver tissue using Cytokeratin 19 (KRT19) Rabbit mAb (A25546) at a dilution of 1:10000 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



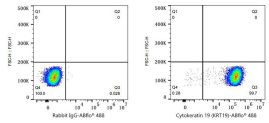
The multiplex IHC analysis on paraffin-embedded Mouse pancreatic organoids tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : SOX9 Rabbit mAb (A19710, 1:2000) with TSA-TYR-520 (Green), and E-Cadherin Rabbit mAb (A20798, 1:2000) with TSA-TYR-570 (Red), and Cytokeratin 19 (KRT19) Rabbit mAb (A25546, 1:5000) with TSA-TYR-690 (Yellow). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.



The multiplex IHC analysis on paraffin-embedded Normal human liver organoids tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903) : CPS1 Rabbit mAb (A24810, 1:4000) with TSA-TYR-520 (Green), and Cytokeratin 7 (KRT7) Rabbit mAb (A4357, 1:4000) with TSA-TYR-570 (Red), and Cytokeratin 19 (KRT19) Rabbit mAb (A25546, 1:5000) with TSA-TYR-690 (Yellow). DAPI (Blue) was used for nuclear staining. Prior to multiplex IHC staining, high-pressure antigen retrieval was performed using 0.01M citrate buffer at pH 6.0. The analysis was completed using a 40x objective lens.



Flow cytometry: 1X10^6 Jurkat cells (negative control,left) and MCF7 cells (right) were intracellularly-stained with Cytokeratin 19 (KRT19) Rabbit mAb (A25546,2 µg /mL,orange line) or Rabbit IgG isotype control (AC042,2 µg/mL,blue line), followed by FITC conjugated goat anti-Rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry: 1X10^6 MCF7 cells were intracellularly-stained with Rabbit IgG isotype control (AC042,2 µg/mL,left) or Cytokeratin 19 (KRT19) Rabbit mAb (A25546, 2 µg/mL,right), followed by FITC conjugated goat anti-Rabbit pAb staining.