

# Cytokeratin 8 Rabbit mAb

Catalog No.: A23133 **Recombinant** **1 Publications**

## Basic Information

### Observed MW

55 kDa

### Calculated MW

54 kDa/56 kDa

### Category

Primary antibody

### Applications

WB,IF/ICC,mIHC,FC,ELISA

### Cross-Reactivity

Human, Mouse, Rat

### CloneNo number

ARC58354

## Background

This gene is a member of the type II keratin family clustered on the long arm of chromosome 12. Type I and type II keratins heteropolymerize to form intermediate-sized filaments in the cytoplasm of epithelial cells. The product of this gene typically dimerizes with keratin 18 to form an intermediate filament in simple single-layered epithelial cells. This protein plays a role in maintaining cellular structural integrity and also functions in signal transduction and cellular differentiation. Mutations in this gene cause cryptogenic cirrhosis. Alternatively spliced transcript variants have been found for this gene.

## Recommended Dilutions

<b>WB</b>	1:2000 - 1:200000
<b>IF/ICC</b>	1:200 - 1:800
<b>mIHC</b>	1:50 - 1:200
<b>FC</b>	1:500 - 1:1000
<b>ELISA</b>	Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Contact

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## Immunogen Information

### Gene ID

3856

### Swiss Prot

P05787

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

K8; KO; CK8; CK-8; CYK8; K2C8; CARD2; Cytokeratin 8 (KRT8)

## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

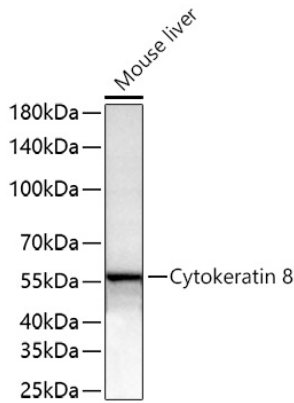
Affinity purification

### Storage

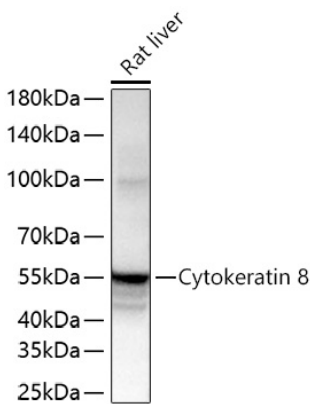
Store at -20°C. Avoid freeze / thaw cycles.

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.

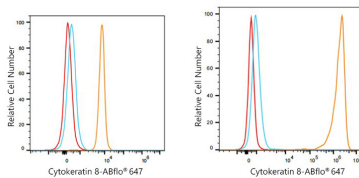
## Validation Data



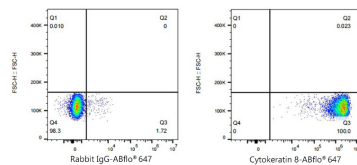
Western blot analysis of lysates from Mouse liver using Cytokeratin 8 Rabbit mAb (A23133) at 1:6000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 1 s.



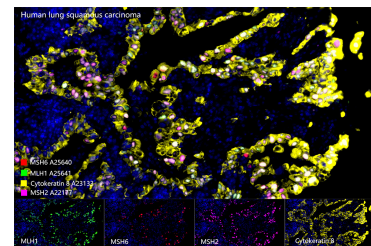
Western blot analysis of lysates from Rat liver using Cytokeratin 8 Rabbit mAb (A23133) at 1:6000 dilution incubated overnight at 4°C.  
 Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.  
 Lysates/proteins: 25 µg per lane.  
 Blocking buffer: 3% nonfat dry milk in TBST.  
 Detection: ECL Basic Kit (RM00020).  
 Exposure time: 1 s.



Flow cytometry:  $1 \times 10^6$  Jurkat cells (Low Expression, left) and HeLa cells (right) were surface-stained with Cytokeratin 8 mAb (A23133, 2 µg/mL, orange line) or ABflo® 647 Rabbit IgG isotype control (A22070, 5 µg/mL, blue line), followed by Alexa Fluor® 647 conjugated goat anti-rabbit pAb staining. Non-fluorescently stained cells were used as blank control (red line).



Flow cytometry:  $1 \times 10^6$  HeLa cells were surface-stained with ABflo® 647 Rabbit IgG isotype control (A22070, 5 µg/mL, left) or Cytokeratin 8 mAb (A23133, 2 µg/mL, right).

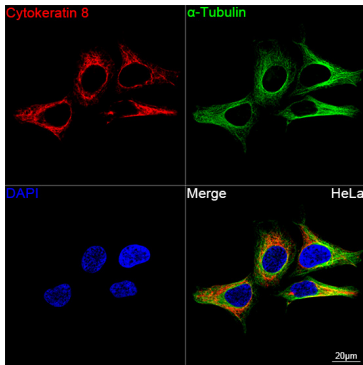


The multiplex IHC analysis on paraffin-embedded Human lung squamous carcinoma tissue using the following specific primary antibodies and tyramide signal amplification (TSA) reagents (RK05903): [KO Validated] MLH1 Rabbit mAb (A25641, 1:100) with TSA-TYR-520 (Green), and [KO Validated] MSH6 Rabbit mAb (A25640, 1:1000) with TSA-TYR-570 (Red), and [KO Validated] MSH2 Rabbit mAb (A22177, 1:500) with TSA-TYR-620 (Magenta), and Cytokeratin 8 Rabbit mAb (A23133, 1:100) 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

## Validation Data

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analysis was completed using a 40x objective lens.



Confocal imaging of HeLa cells using Cytokeratin 8 Rabbit mAb (A23133, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with  $\alpha$ -Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.