

# Cytokeratin 8 Monoclonal Antibody (LP3K), eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Mouse / IgG1
Class	Monoclonal
Type	Antibody
Clone	LP3K
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4°C
RRID	AB_10557242

Applications	Tested Dilution	Publications
Western Blot (WB)	1-10 µg/mL	-
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	1-10 µg/mL	-

## Product Specific Information

**Description:** This LP3K monoclonal antibody reacts with human cytokeratin 8 (K8), a 55-kDa member of the family of intermediate filament proteins. Cytokeratin 8 is a type II (or basic) keratin that is expressed in epithelial and carcinoma cells. Cytokeratins form the intracellular cytoskeletal network that maintains the integrity and stability of cells and tissues. More specifically, studies have demonstrated the involvement of cytokeratin 8 in protection against apoptosis, stress, or injury, as well as regulation of the cell cycle. This keratin is frequently co-expressed with cytokeratin 18, a type I (or acidic) keratin as a heterodimer. Although detected primarily in the cytoplasm of normal healthy cells, cytokeratin 8 has been found to localize to the plasma membrane in some tumor cells. Finally, cytokeratin 8 is phosphorylated on serine 73 in dividing cells.

**Applications Reported:** This LP3K antibody has been reported for use in immunoblotting (WB) and immunocytochemistry.

**Applications Tested:** This LP3K antibody has been tested by western blot analysis of reduced A549 cell lysate, as well as by immunocytochemistry of A549 cells. For western blotting, this antibody can be used at 1-10 µg/mL. For immunocytochemistry, LP3K can be used at 1 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

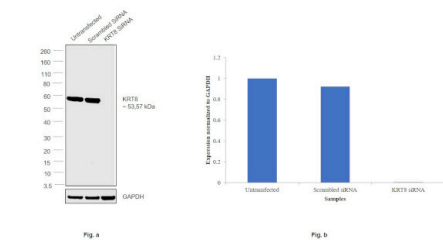
**Purity:** Greater than 90%, as determined by SDS-PAGE.

**Aggregation:** Less than 10%, as determined by HPLC.

**Filtration:** 0.2 µm post-manufacturing filtered.

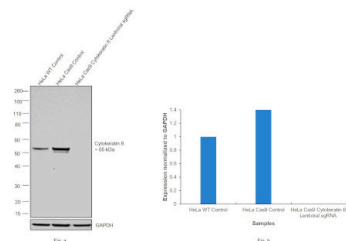
### Cytokeratin 8 Antibody (14-9938-82)

Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. Caco-2 cells were transfected with Cytokeratin 8 siRNA and decrease in signal intensity was observed in Western Blot application using Anti-Cytokeratin 8 Monoclonal Antibody (LP3K), eBioscience™ (Product # 14-9938-82). {KD}



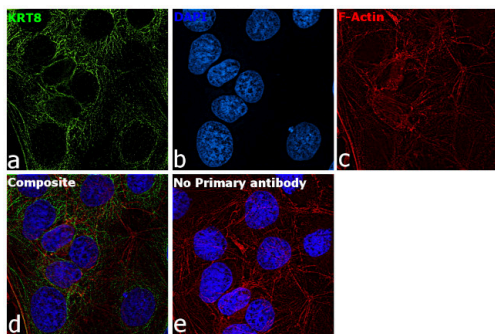
### Cytokeratin 8 Antibody (14-9938-82)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in HeLa Cas9 cell line transduced with Cytokeratin 8 Lentiviral sgRNA compared to control cell line using Anti-Cytokeratin 8 Monoclonal Antibody (LP3K), eBioscience™ (Product # 14-9938-82). {KO}



### Cytokeratin 8 Antibody (14-9938-82) in ICC/IF

Immunofluorescence analysis of Cytokeratin 8 was performed using 70% confluent log phase Caco-2 cells. The cells were fixed with ice-cold acetone at 4° C for 5 minutes, and blocked with 2% BSA for 45 minutes at room temperature. The cells were labeled with Cytokeratin 8 Monoclonal Antibody (LP3K), eBioscience™ (Product # 14-9938-82) at a concentration of 1 µg/mL in 0.1% BSA, incubated at 4 degree celsius overnight and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Recombinant Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175), (1:2000 dilution), for 45 minutes at room temperature (Panel a: Green). Nuclei (Panel b:Blue) were stained with ProLong™ Diamond Antifade Mountant with DAPI (Product # P36962). F-actin (Panel c: Red) was stained with Rhodamine Phalloidin (Product # R415, 1:300 dilution). Panel d represents the merged image showing cytoskeletal localization. Panel e represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.



[View more figures on thermofisher.cn](http://thermofisher.cn)

## 1 Reference

### Immunohistochemistry (1)

#### Cell reports methods

#### SeqStain is an efficient method for multiplexed, spatialomic profiling of human and murine tissues.

"Published figure using Cytokeratin 8 monoclonal antibody (Product # 14-9938-82) in Immunocytochemistry"

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