

Cytokeratin 14 Monoclonal Antibody (LL002)

Product Details

Size	500 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Dog, Rat, Sheep, Cat, Mouse, Human, Horse, Rhesus monkey
Host/Isotype	Mouse / IgG3, kappa
Class	Monoclonal
Type	Antibody
Clone	LL002
Conjugate	Unconjugated
Immunogen	A synthetic peptide of 15 amino acid residues from the C-terminus of human keratin 14
Form	Liquid
Concentration	0.2 mg/mL
Purification	Protein A/G
Storage buffer	PBS, pH 7.4, with 0.05% BSA
Contains	0.05% sodium azide
Storage conditions	4° C
RRID	AB_10982092

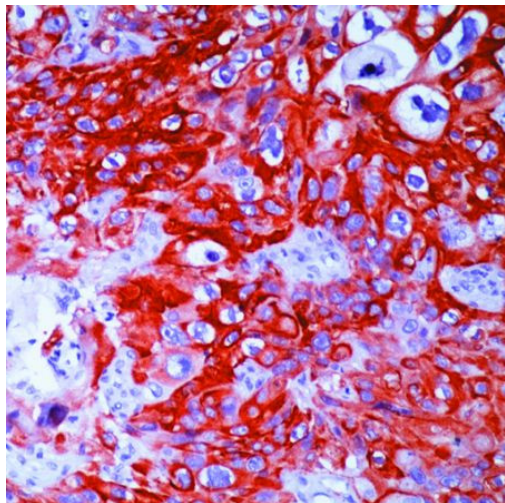
Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	11 Publications
Immunohistochemistry (IHC)	-	79 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:800-1:1,600	13 Publications
Immunohistochemistry (Frozen) (IHC (F))	-	4 Publications
Immunocytochemistry (ICC/IF)	2 µg/mL	17 Publications
Flow Cytometry (Flow)	-	2 Publications
In vitro Assay (IV)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

MA5-11599 targets Cytokeratin 14 in IHC (P) and WB applications and shows reactivity with Human and Rat samples.

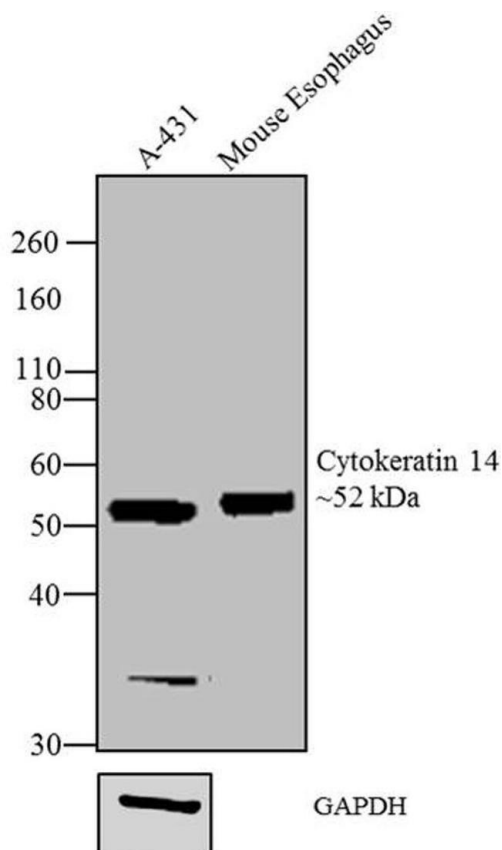
The MA5-11599 immunogen is a synthetic peptide of 15 amino acid residues from the C-terminus of human keratin 14.

Product Images For Cytokeratin 14 Monoclonal Antibody (LL002)



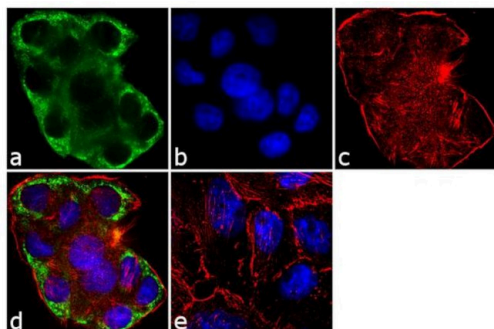
Cytokeratin 14 Antibody (MA5-11599) in IHC (P)

Formalin-fixed, paraffin-embedded human squamous cell carcinoma of lung stained with Keratin 14 antibody using peroxidase-conjugate and DAB chromogen. Note cytoplasmic staining of tumor cells.



Cytokeratin 14 Antibody (MA5-11599) in WB

Western blot analysis was performed on whole cell extract and tissue extract of A431 (Lane 1) and Mouse esophagus tissue (Lane 2). The blots were probed with Anti-Cytokeratin 14 Mouse Monoclonal Antibody (Product # MA5-11599, 2 µg/mL) and detected by chemiluminescence using Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate (Product # A28177, 0.4 µg/mL, 1:2500 dilution). A ~ 52 kDa band corresponding to Cytokeratin 14 was observed across cell line and tissue extract tested. Known quantity of protein samples were electrophoresed using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0321BOX), XCell SureLock™ Electrophoresis System (Product # EI0002) and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® 2 Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5 % skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



Cytokeratin 14 Antibody (MA5-11599) in ICC/IF

Immunofluorescent analysis of Cytokeratin 14 was performed using 70% confluent log phase A-431 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with Cytokeratin 14 (LL002) Mouse Monoclonal Antibody (Product # MA5-11599) at 2 µg/mL in 0.1% BSA and incubated for 3 hours at room temperature and then labeled with Goat anti-Mouse IgG (H+L) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) a dilution of 1:2000 for 45 minutes at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing cytoplasmic localization. Panel e shows the no primary antibody control. The images were captured at 60X magnification.

View more figures on thermofisher.cn

128 References

Western Blot (11)

Frontiers in bioengineering and biotechnology	Year 2022
Epiprofin Transcriptional Activation Promotes Ameloblast Induction From Mouse Induced Pluripotent Stem Cells <i>via</i> the BMP-Smad Signaling Axis.	Species Mouse
"MA5-11599 was used in Western Blotting to reveal the potential regulatory networks between Epfn and the BMP-Smad pathway and suggest that Epfn is a promising target for inducing the differentiation of ameloblasts, which can be used in enamel and tooth regeneration."	
Authors: Miao X,Niibe K,Fu Y,Zhang M,Nattasit P,Ohori-Morita Y,Nakamura T,Jiang X,Egusa H	
Investigative ophthalmology & visual science	Year 2022
The c-Myc Oncogene Maintains Corneal Epithelial Architecture at Homeostasis, Modulates p63 Expression, and Enhances Proliferation During Tissue Repair.	Species Mouse
"MA5-11599 was used in Western Blot to show that Myc regulates the balance among CE stratification, differentiation, and surface exfoliation and promotes the transition to the hyperproliferative state during wound healing."	
Authors: Portal C,Wang Z,Scott DK,Wolosin JM,Iomini C	

View more WB references on thermofisher.cn

Immunohistochemistry (79)

Cellular and molecular gastroenterology and hepatology	Year 2022
GATA4 Controls Epithelial Morphogenesis in the Developing Stomach to Promote Establishment of Glandular Columnar Epithelium.	
"Published figure using Cytokeratin 14 monoclonal antibody (Product # MA5-11599) in Immunohistochemistry"	
Authors: DeLaForest A,Kohlhofer BM,Franklin OD,Stavniichuk R,Thompson CA,Pulakanti K,Rao S,Battle MA	
Nature communications	Year 2021
OTULIN inhibits RIPK1-mediated keratinocyte necroptosis to prevent skin inflammation in mice.	Species Human
"MA5-11599 was used in Immunohistochemistry-immunofluorescence to show that OTULIN maintains homeostasis and prevents inflammation in the skin by inhibiting TNFR1-mediated, RIPK1 kinase activity-dependent keratinocyte death and primarily necroptosis."	
Authors: Schünke H,Göbel U,Dikic I,Pasparakis M	

View more IHC references on thermofisher.cn

More applications with references on thermofisher.cn

- IHC (P) (13)
- IHC (F) (4)
- ICC/IF (17)
- Flow (2)
- IV (1)
- Misc (1)

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