

# Product Datasheet

## Collagen IV alpha 1 Antibody (HL1351) - Azide and BSA Free NBP3-25416

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 10/2/2024 v.20.1

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**NBP3-25416**

Collagen IV alpha 1 Antibody (HL1351) - Azide and BSA Free

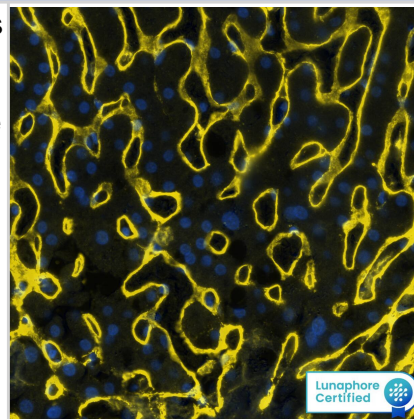
Product Information	
Unit Size	100 ul
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	HL1351
Preservative	No Preservative
Isotype	IgG
Purity	Protein A purified
Buffer	PBS
Target Molecular Weight	161 kDa

Product Description	
Host	Rabbit
Gene ID	1282
Gene Symbol	COL4A1
Species	Human, Mouse
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Bovine (82%).
Immunogen	Recombinant protein encompassing a sequence within the N-terminus of human Collagen IV alpha 1. The exact sequence is proprietary.

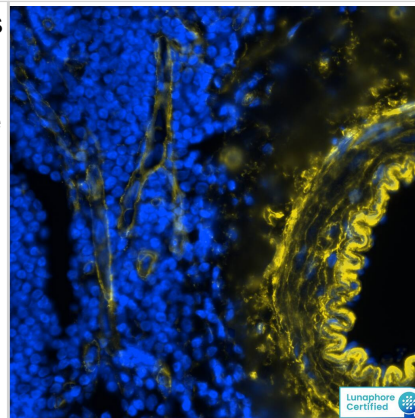
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Multiplex Immunofluorescence
Recommended Dilutions	Western Blot 1:500-1:3000, Immunohistochemistry Assay dependent, Immunocytochemistry/ Immunofluorescence Assay dependent, Immunohistochemistry-Paraffin Assay dependent, Multiplex Immunofluorescence 1ug/mL

**Images**

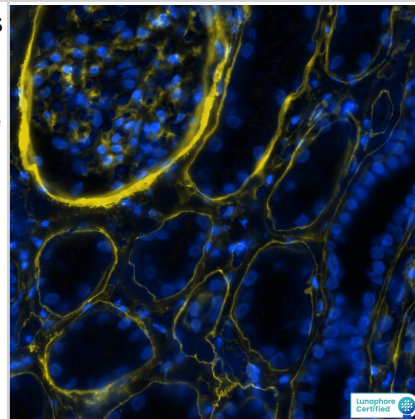
Collagen IV was detected in immersion fixed paraffin-embedded sections of human liver using Rabbit Anti-Human/Mouse/Rat Collagen IV  $\alpha$ 1 Monoclonal Antibody (Novus Catalog # NBP3-25416) at 1  $\mu$ g/mL at 37° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9). Tissue was stained using the Alexa Fluor™ Plus 555 Goat anti-Rabbit IgG Secondary Antibody at 1:100 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # [DR555RB](#)) and counterstained with DAPI (blue; Lunaphore Catalog # [DR100](#)). Specific staining was localized to the cell membrane. Protocol available in [COMET™ Panel Builder](#).



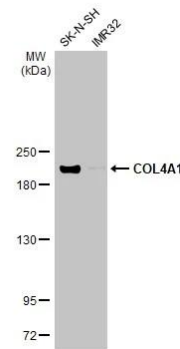
Collagen IV was detected in immersion fixed paraffin-embedded sections of human Tonsil using Rabbit Anti-Human/Mouse/Rat Collagen IV  $\alpha$ 1 Monoclonal Antibody (Novus Catalog # NBP3-25416) at 1 $\mu$ g/mL at 37° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; EpreDia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ Plus 555 Goat anti-Rabbit IgG Secondary Antibody at 1:100 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # [DR555RB](#)) and counterstained with DAPI (blue; Lunaphore Catalog # [DR100](#)). Specific staining was localized to the cell membrane. Protocol available in [COMET™ Panel Builder](#).



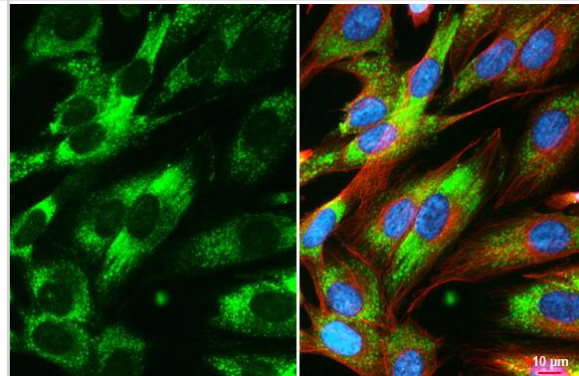
Collagen IV was detected in immersion fixed paraffin-embedded sections of human Kidney using Rabbit Anti-Human/Mouse/Rat Collagen IV  $\alpha$ 1 Monoclonal Antibody (Novus Catalog # NBP3-25416) at 1 $\mu$ g/mL at 37° Celsius for 4 minutes. Before incubation with the primary antibody, tissue underwent an all-in-one dewaxing and antigen retrieval preprocessing using PreTreatment Module (PT Module) and Dewax and HIER Buffer H (pH 9; EpreDia Catalog # TA-999-DHBH). Tissue was stained using the Alexa Fluor™ Plus 555 Goat anti-Rabbit IgG Secondary Antibody at 1:100 at 37 ° Celsius for 2 minutes. (Yellow; Lunaphore Catalog # [DR555RB](#)) and counterstained with DAPI (blue; Lunaphore Catalog # [DR100](#)). Specific staining was localized to the cell membrane. Protocol available in [COMET™ Panel Builder](#).



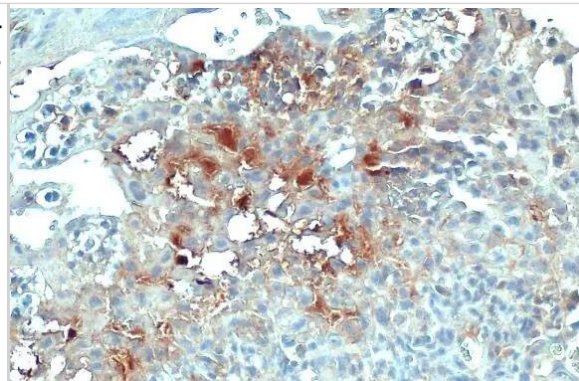
Western Blot: Collagen IV alpha 1 Antibody (HL1351) - Azide and BSA Free [NBP3-25416] - Various whole cell extracts (30 ug) were separated by 5% SDS-PAGE, and the membrane was blotted with COL4A1 antibody [HL1351] (NBP3-25416) diluted at 1:1000. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



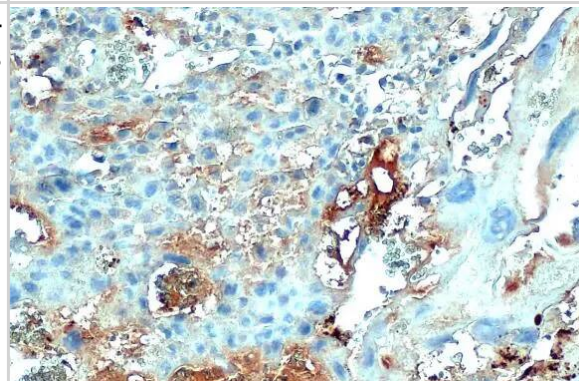
Immunocytochemistry/Immunofluorescence: Collagen IV alpha 1 Antibody (HL1351) - Azide and BSA Free [NBP3-25416] - COL4A1 antibody [HL1351] detects COL4A1 protein at vesicle by immunofluorescent analysis. Sample: SK-N-SH cells were fixed in 4% paraformaldehyde at RT for 15 min. Green: COL4A1 stained by COL4A1 antibody [HL1351] (NBP3-25416) diluted at 1:500. Red: alpha Tubulin, a cytoskeleton marker, stained by alpha Tubulin antibody [GT114] (NBP2-43837) diluted at 1:1000. Blue: Fluoroshield with DAPI .



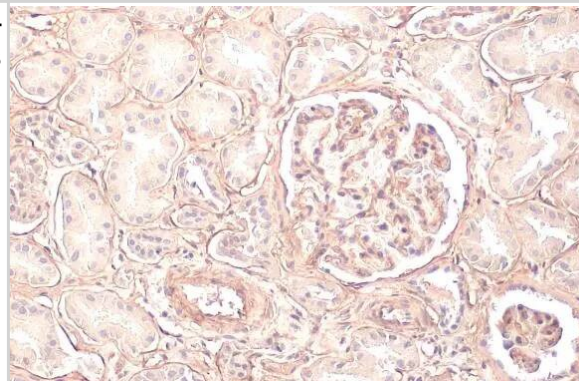
Immunohistochemistry-Paraffin: Collagen IV alpha 1 Antibody (HL1351) - Azide and BSA Free [NBP3-25416] - COL4A1 antibody [HL1351] detects COL4A1 protein at cell membrane and secreted by immunohistochemical analysis. Sample: Paraffin-embedded mouse placenta. COL4A1 stained by COL4A1 antibody [HL1351] (NBP3-25416) diluted at 1:100. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



Immunohistochemistry-Paraffin: Collagen IV alpha 1 Antibody (HL1351) - Azide and BSA Free [NBP3-25416] - COL4A1 antibody [HL1351] detects COL4A1 protein at cell membrane and secreted by immunohistochemical analysis. Sample: Paraffin-embedded mouse placenta. COL4A1 stained by COL4A1 antibody [HL1351] (NBP3-25416) diluted at 1:100. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min



Immunohistochemistry-Paraffin: Collagen IV alpha 1 Antibody (HL1351) - Azide and BSA Free [NBP3-25416] - COL4A1 antibody [HL1351] detects COL4A1 protein at cell membrane by immunohistochemical analysis. Sample: Paraffin-embedded human kidney. COL4A1 stained by COL4A1 antibody [HL1351] (NBP3-25416) diluted at 1:50. Antigen Retrieval: Citrate buffer, pH 6.0, 15 min





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### **Products Related to NBP3-25416**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
7754-BH-005/CF	TGF-beta 1 [Unconjugated]

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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