

# Product Datasheet

## Collagen IV Antibody (M3F7)

### NBP3-07597-100ug

Unit Size: 100 ug

Store at 4C.

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**NBP3-07597-100ug**

Collagen IV Antibody (M3F7)

Product Information	
Unit Size	100 ug
Concentration	0.2 mg/ml
Storage	Store at 4C.
Clonality	Monoclonal
Clone	M3F7
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein A or G purified
Buffer	10 mM PBS with 0.05% BSA

Product Description	
Description	<p>200ug/ml of antibody purified from Bioreactor Concentrate by Protein A or G. Prepared in 10 mM PBS with 0.05% BSA &amp; 0.05% azide. Also available WITHOUT BSA &amp; azide at 1.0 mg/ml. (NBP3-08515)</p> <p>Antibody with azide - store at 2 to 8C. Antibody without azide - store at -20 to -80 C.</p>
Host	Mouse
Gene ID	1282
Gene Symbol	COL4A1
Species	Human, Rat, Avian
Reactivity Notes	Quail
Specificity/Sensitivity	<p>Collagen Type IV is a major component of the basement membrane and plays an important role in cell adhesion, migration, differentiation and growth. Collagen Type IV express at the basement membranes in a variety of tissues including kidney, muscle, lymph nodes, lung, tendon and spleen. Collagen Type IV has been shown to be useful in differentiating microinvasive from in situ ductal carcinomas of the breast. Other Collagen Type IV studies include use in pancreatic adenocarcinoma and chronic pancreatitis, nephrosclerosis and other kidney diseases, oral squamous cell carcinoma, laryngeal cancers, ovarian cancers and cervical cancers. Type IV collagen is the major structural component of glomerular basement membranes (GBM), forming a meshwork together with laminins, proteoglycans and entactin/nidogen. Arresten, comprising the C-terminal NC1 domain, inhibits angiogenesis and tumor formation. The C-terminal half is found to possess the anti-angiogenic activity. Specifically inhibits endothelial cell proliferation, migration and tube formation. Inhibits expression of hypoxia-inducible factor 1alpha and ERK1/2 and p38 MAPK activation. Ligand for alpha1/beta1 integrin. M3F7 recognizes type IV collagen in basement membranes in kidney, lung, placenta, cornea and skin. This antibody does not recognize denatured type IV collagen.</p>
Immunogen	alpha1 (IV)-alpha2(IV) triple helix. The epitope is triple helical domain about 900 from the N-terminus

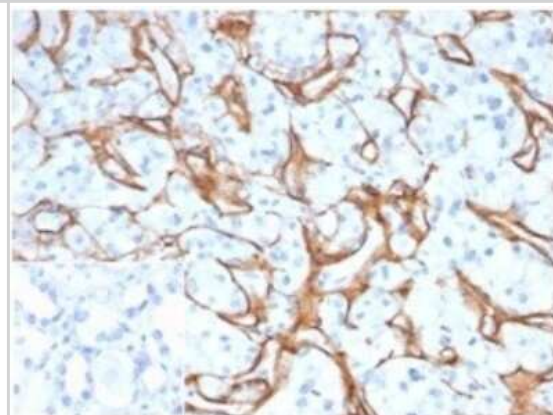
Product Application Details	
Applications	Western Blot, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin



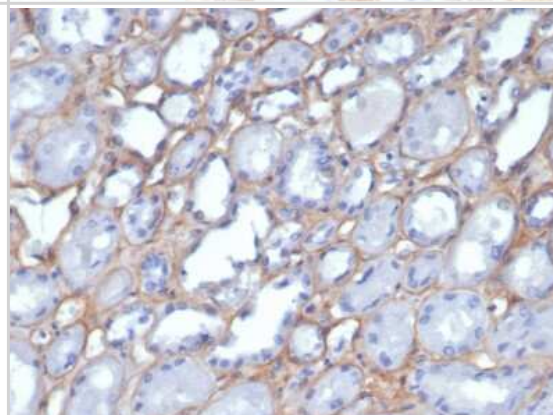
<b>Recommended Dilutions</b>	Western Blot 1-2 ug/ml, Flow Cytometry 1-2 ug/million cells, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1-2 ug/ml, Immunohistochemistry-Paraffin 1-2 ug/ml
<b>Application Notes</b>	Immunohistochemistry (Formalin-fixed): 1-2ug/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95C followed by cooling at RT for 20 minutes. Optimal dilution for a specific application should be determined.

## Images

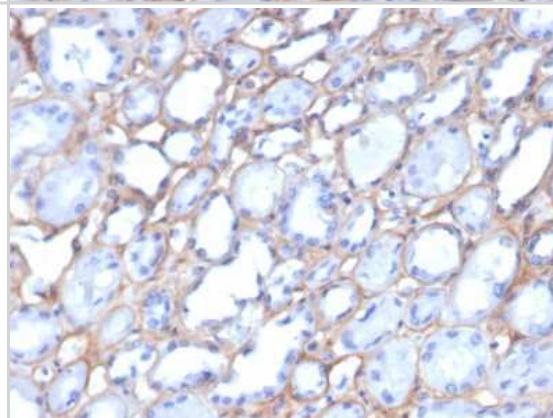
Immunohistochemistry-Paraffin: Collagen IV Antibody (M3F7) [NBP3-07597] - Formalin-fixed, paraffin-embedded human kidney stained with Collagen IV Mouse Monoclonal Antibody (M3F7).



Immunohistochemistry-Paraffin: Collagen IV Antibody (M3F7) [NBP3-07597] - Formalin-fixed, paraffin-embedded human kidney stained with Collagen IV Mouse Monoclonal Antibody (M3F7).



Immunohistochemistry-Paraffin: Collagen IV Antibody (M3F7) [NBP3-07597] - Formalin-fixed, paraffin-embedded human kidney stained with Collagen IV Mouse Monoclonal Antibody (M3F7).





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### **Products Related to NBP3-07597-100ug**

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBP1-97245	Collagen IV Native Protein

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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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