## **Product Datasheet**

### Collagen IV Antibody (M3F7) [Alexa Fluor® 350] NBP3-08515AF350

Unit Size: 100 ul

Store at 4C in the dark.

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#### NBP3-08515AF350

Collagen IV Antibody (M3F7) [Alexa Fluor® 350]

Unit Size         100 ul           Concentration         Please see the vial label for concentration. If unlisted please contact technical services.           Storage         Store at 4C in the dark.           Clonality         Monoclonal           Clone         M3F7           Preservative         0.05% Sodium Azide           Isotype         IgG1 Kappa           Conjugate         Alexa Fluor 350           Purity         Protein A or G purified           Buffer         SomM Sodium Borate           Product Description         1282           Gene ID         1282           Gene ID         1282           Gene Symbol         COL4A1           Specificity/Sensitivity         Collagen Type IV is a major component of the basement membrane and plays an important role in cell adhesion, migration, differentiation and growth. Collagen an important role in cell adhesion, migration, differentiation and growth. Collagen Supen No be useful in differentiating microinvasive from in situ ductal carcinomas of the breast. Other Collagen Type IV has been shown to be useful in differentiating microinvasive from in situ ductal carcinomas and chronic parcraetits, nephrosclerosis and other kidney disease, oral squamous cell carcinoma, laryngeal cancers, varian cancers and cervical cancers. Type IV collagen is the major structural component of glomerular bareastement membranes (GBM), forming a meshwork together with laminins, proteoglycans and entactin/nidogen. Arresten, comprising the C-terminal NAI is tonud to posess the anti			
Concentration         Please see the vial label for concentration. If unlisted please contact technical services.           Storage         Store at 4C in the dark.           Clonality         Monoclonal           Clone         M3F7           Preservative         0.05% Sodium Azide           Isotype         IgG1 Kappa           Conjugate         Alexa Fluor 350           Purity         Protein A or G purified           Buffer         50mM Sodium Borate           Product Description         Hoose           Gene ID         1282           Gene Symbol         COL4A1           Species         Human, Rat, Avian           Reactivity Notes         Quail           Specificity/Sensitivity         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 has been shown to be useful in differentiating microirvasive from in situ ductal carcinomas of the breast. Other Collagen Type IV has been shown to be useful in differentiating microirvasive from in situ ductal carcinomas of the brease. Type IV Studies include use in pancreatic adenocarcinoma and chronic pancreatiis, nephrosclerosis and other kidney diseases, oral squamous cell carcinoma, laryneal cancers, ovarian cancers and cervical cancers. Type IV Collagen is the major structural component of glomerular basement membranes (BM), forming a meshwork together with laminins, proteoglycans and entactin/nidogen. Arresten, comprising the C-terminal hafi is fo	Product Information		
services.         Storage       Store at 4C in the dark.         Clonality       Monoclonal         Clone       M3F7         Preservative       0.05% Sodium Azide         Isotype       IgG1 Kappa         Conjugate       Alexa Fluor 350         Purity       Protein A or G purified         Buffer       50mM Sodium Borate         Product Description       Mouse         Gene ID       1282         Gene Symbol       COL4A1         Species       Human, Rat, Avian         Reactivity Notes       Quail         Specificity/Sensitivity       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, and ervical cancers, order saunous cell carcinoma, laryngeal cancers, ovarian cancers and cervical cancers. Type IV collagen Type IV thas been shown to be useful in differentiating microinvasive from in situ ductal carcinome, inhibits angiogenesis and there kidney diseases, oral squamous cell carcinoma, laryngeal cancers, ovarian cancers and cervical cancers. Type IV collagen in basement membrane, comprising the C-terminal NC1 domain, inhibits angiogenesis and tumor formation. The C-terminal NC1 domain, inhibits angiogeneis activity. Specifically inhibits endothelial cell proliferatin.	Unit Size	100 ul	
Clonality         Monoclonal           Clone         M3F7           Preservative         0.05% Sodium Azide           Isotype         IgG1 Kappa           Conjugate         Alexa Fluor 350           Purity         Protein A or G purified           Buffer         50mM Sodium Borate           Product Description         Hoas           Host         Mouse           Gene ID         1282           Gene Symbol         COL4A1           Species         Human, Rat, Avian           Reactivity Notes         Quail           Specificity/Sensitivity         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 adenccarcinoma and schoric pancreatits, negel 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 entactir/nidogen. Arresten, comprising the C-terminal NC1 domain, nishibits angiogene is and tumor formation. The C-terminal NC1 domain, mishibits angiogene is and tumor formation. The C-terminal NC1 domain, M3F7 recognizes type IV collagen in basement membranes in a variangiogenic activity. Spec	Concentration		
CloneM3F7Preservative0.05% Sodium AzideIsotypeIgG1 KappaConjugateAlexa Fluor 350PurityProtein A or G purifiedBuffer50mM Sodium BorateProduct DescriptionHostMouseGene ID1282Gene SymbolCOL4A1SpeciesHuman, Rat, AvianReactivity NotesQuailSpecificity/SensitivityCollagen 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 differentiation membranes (GBM), forming a meshwork together with laminins, proteoglyccans and entraind, service and envice the component of glomerular basement membranes (BM), forming a meshwork together with laminins, proteoglyccans and entrainof. The C-terminal NC1 domain, inhibits expression of hypoxia-inducible factor 1 alpha and ERK1/2 and p38 MAPK activation. Ligand for alpha1/beta1 integrin. M3F7 recognizes type IV collagen in basement membranes in a variety of inside expression of hypoxia-inducible factor 1 alpha and ERK1/2 and p38 MAPK activation. Ligand for alpha1/beta1 integrin. M3F7 recognizes type IV collagen in basement membranes in a dipat (IV)-alpha2(IV) triple helix. The epitope is triple helical domain about 900	Storage	Store at 4C in the dark.	
Preservative 0.05% Sodium Azide Isotype IgG1 Kappa Conjugate Alexa Fluor 350 Purity Protein A or G purified Buffer 50mM Sodium Borate Product Description Host Mouse Gene ID 1282 Gene Symbol COL4A1 Species Human, Rat, Avian Reactivity Notes Quail Specificity/Sensitivity 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 glomeriue basement membrane at the first endition. The C- terminal NG1 domain, inhibits angiogenesis and tumor formation. The C- terminal NG1 domain, inhibits angiogenesis and tumor formation. The C- terminal NG1 domain, inhibits angiogenesis and tumor formation. Ligand for alpha1/beta1 integrin. M3F7 recognizes type IV collagen in basement membranes in kidney, lung, placenta, corne and skin. This antibody does not recognize denatured type IV collagen. Immunogen	Clonality	Monoclonal	
IsotypeIgG1 KappaConjugateAlexa Fluor 350PurityProtein A or G purifiedBuffer50mM Sodium BorateProduct DescriptionHostMouseGene ID1282Gene SymbolCOL4A1SpeciesHuman, Rat, AvianReactivity NotesQuailSpecificity/SensitivityCollagen 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 turnor formation. The C-terminal half is found to possess the anti-angiogenic activity. Specifically inhibits endothelial cell proliferation, migration and tactivation. Ligand for alpha1/beta1 integrin. M3F7 recognizes type IV collagen in basement membranes in kidney, lung, placenta, corne and skin. This antibody does not recognize denatured type IV collagen.Immunogenalpha1 (IV)-alpha2(IV) triple helix. The epitope is triple helical domain about 900	Clone	M3F7	
ConjugateAlexa Fluor 350PurityProtein A or G purifiedBuffer50mM Sodium BorateProduct DescriptionHostMouseGene ID1282Gene SymbolCOL4A1SpeciesHuman, Rat, AvianReactivity NotesQuailSpecificity/SensitivityCollagen 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 adneoracrinoma and chronic pancreatilis, 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/sidogen. Arresten, comprising the C-terminal NCI domain, inhibits angiogenic activity. Specifically inhibits endothelial cell proliferation, migration and tube formation. Inhibits expression of hypoxia-inducible factor 1apha 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.Immunogenalpha1 (IV)-alpha2(IV) triple helix. The epitope is triple helical domain about 900	Preservative	0.05% Sodium Azide	
Purity         Protein A or G purified           Buffer         50mM Sodium Borate           Product Description         Host           Host         Mouse           Gene ID         1282           Gene Symbol         COL4A1           Species         Human, Rat, Avian           Reactivity Notes         Quail           Specificity/Sensitivity         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 adencarcinoma 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 lamins, proteoglycans and entactin/nidogen. Arresten, comprising the C-terminal half is found to possess the anti-angiogeneis and tumor formation. The C-terminal half is found to possess the anti-angiogeneis and tumor formation. The C-terminal half is found to possess the anti-angiogeneis and tumor formation. The gand 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.           Immunogen         alpha1 (IV)-alpha2(IV) triple helix. The epitope is	Isotype	IgG1 Kappa	
Buffer       50mM Sodium Borate         Product Description       Mouse         Host       Mouse         Gene ID       1282         Gene Symbol       COL4A1         Species       Human, Rat, Avian         Reactivity Notes       Quail         Specificity/Sensitivity       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 NC1 domain, inhibits angiogenesis and tumor 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, corne and skin. This antibody does not recognize denatured type IV collagen.	Conjugate	Alexa Fluor 350	
Product Description         Host       Mouse         Gene ID       1282         Gene Symbol       COL4A1         Species       Human, Rat, Avian         Reactivity Notes       Quail         Specificity/Sensitivity       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 posses the anti-angiogenic activity. Specifically inhibits endothelial cell proliferation, migration and tube formation. Inhibit 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.	Purity	Protein A or G purified	
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<ul> <li>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.</li> </ul>	Reactivity Notes	Quail	
$\bullet$	Specificity/Sensitivity	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	
	Immunogen		

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#### **Product Application Details**

Applications	Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
	Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin
Application Notes	Optimal dilution of this antibody should be experimentally determined.

#### Images

Collagen IV Antibody (M3F7) [Alexa Fluor® 350] [NBP3-08515AF350] - Vial of Alexa Fluor 350 conjugated antibody. Alexa Fluor 350 is optimally excited at 346 nm by the UV laser (350 or 355 nm) and has an emission maximum of 442 nm.

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In the second	Alexa Fluo	® 2E0	
	Alexa Fluc	or® 350	
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Alexa Fluor <sup>e 350</sup>	UV (350)	450/45	
			1
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GNOVUS	EXCITATION MAX (nm)	EMISSION MAX (nm)	





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#### **General Contact Information**

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#### Products Related to NBP3-08515AF350

NBP1-97245Collagen IV Native Protein7754-BH-005/CFTGF-beta 1 [Unconjugated]NBP1-97268Collagen IV Native ProteinDVE00VEGF [HRP]

#### 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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