

# Product Datasheet

## Collagen IV Antibody (M3F7) [Alexa Fluor® 647] NBP3-08515AF647

Unit Size: 100 ul

Store at 4C in the dark.

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**NBP3-08515AF647**

Collagen IV Antibody (M3F7) [Alexa Fluor® 647]

| Product Information     |  |
|-------------------------|--|
| 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 647  |
| 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 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. |
| Immunogen               | alpha1 (IV)-alpha2(IV) triple helix. The epitope is triple helical domain about 900 from the N-terminus  |



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|--------------|--|
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| <b>Product Application Details</b> |   |
|------------------------------------|---|
| <b>Applications</b>                | Western Blot, Flow Cytometry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin |
| <b>Recommended Dilutions</b>       | Western Blot, Flow Cytometry, Immunohistochemistry, Immunocytochemistry/Immunofluorescence, Immunohistochemistry-Paraffin |
| <b>Application Notes</b>           | Optimal dilution of this antibody should be experimentally determined.  |



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### **Products Related to NBP3-08515AF647**

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|                |   |
|----------------|---|
| IC002R         | Mouse IgG1 Isotype Control (11711) [Alexa Fluor® 647] |
| NBP1-97268     | Collagen IV Native Protein                            |
| 7754-BH-005/CF | TGF-beta 1 [Unconjugated]                             |
| 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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