

# Product Datasheet

## Collagen I alpha 1 Antibody - Azide and BSA Free NBP2-29651

Unit Size: 0.1 ml

Store at -20C. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



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### Publications: 1

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Updated 10/23/2024 v.20.1

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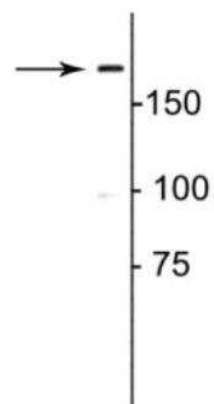
**NBP2-29651**

Collagen I alpha 1 Antibody - Azide and BSA Free

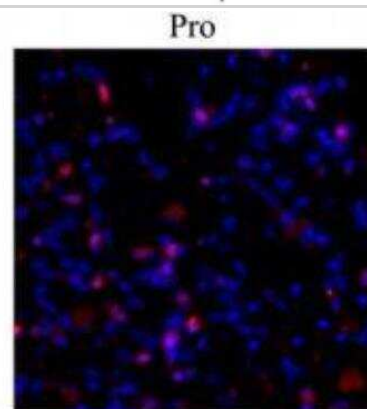
<b>Product Information</b>	
<b>Unit Size</b>	0.1 ml
<b>Concentration</b>	Please see the vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Store at -20C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG
<b>Purity</b>	Antigen Affinity-purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	180 kDa
<b>Product Description</b>	
<b>Description</b>	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 uL/vial depending on usage).
<b>Host</b>	Rabbit
<b>Gene ID</b>	1277
<b>Gene Symbol</b>	COL1A1
<b>Species</b>	Human, Mouse, Rat
<b>Reactivity Notes</b>	Based on the homology of the antigen this antibody is expected to recognize the collagen I alpha1 polypeptide in most, if not all, species of mammals, birds, amphibians, and fishes.
<b>Specificity/Sensitivity</b>	This Collagen I alpha 1 antibody is specific for the propeptide portion of the ~180 kDa collagen I alpha1 polypeptide found in human lung fibroblast extract. The antibody also works well for immunohistochemistry on paraformaldehyde-fixed sections with a simple antigen-retrieval protocol (incubate slides for 20 minutes at 90 C in 10 mM sodium citrate (pH 6.0)/ 0.1% Tween-20). Note that in paraffin sections of formaldehyde-fixed fibrotic mouse lung tissue, the antibody recognizes collagen I molecules that are still associated with the cells in which they were synthesized.
<b>Immunogen</b>	This Collagen I alpha 1 antibody was raised against synthetic peptide corresponding to amino acid residues specific to the collagen 1, alpha 1 propeptide conjugated to KLH. Accession # P02452
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry, Immunohistochemistry-Paraffin
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunohistochemistry 1:100, Immunohistochemistry-Paraffin 1:100

## Images

Western Blot: Collagen I alpha 1 Antibody [NBP2-29651] - Rat lung lysate showing specific immunolabeling of collagen I alpha 1 with observed molecular weight at ~180.



Immunohistochemistry: Collagen I alpha 1 Antibody [NBP2-29651] - Collagen I Antibody [NBP2-29651] - fibrotic mouse lung tissue showing specific staining of collagen I molecules (red) that are still associated with the cells in which they were synthesized.



## Publications

Hu, D, Zhang, Y Et al. The protective effects of granulocyte-macrophage colony-stimulating factor against radiation-induced lung injury. Transl Lung Cancer Res 2020-12-01 [PMID: 33489805] (IF/IHC, Human)



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### **Products Related to NBP2-29651**

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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
NBP1-77457PEP	Collagen I alpha 1 Antibody Blocking Peptide

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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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