

# Product Datasheet

## Collagen I alpha 1 Antibody - BSA Free NBP1-77457

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Updated 10/23/2024 v.20.1

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**NBP1-77457**

Collagen I alpha 1 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS and 30% Glycerol
Target Molecular Weight	139 kDa

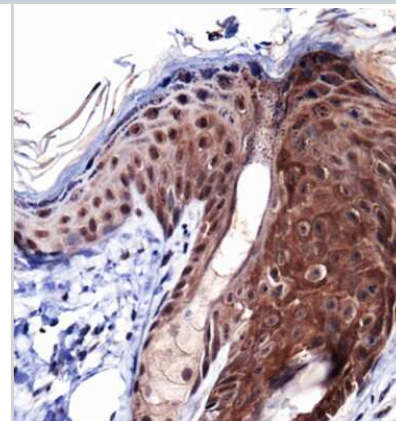
Product Description	
Host	Rabbit
Gene ID	1277
Gene Symbol	COL1A1
Species	Human, Mouse
Immunogen	This Collagen I alpha 1 antibody was raised against a synthetic peptide made to an internal portion of the human Collagen I protein (between residues 150-200) [UniProt# P02452]

Product Application Details	
Applications	Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Western Blot (Negative)
Recommended Dilutions	Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 10-20 ug/ml, Immunohistochemistry-Paraffin 1:200, Western Blot (Negative)
Application Notes	This Collagen 1 antibody is useful for IHC-paraffin embedded sections.

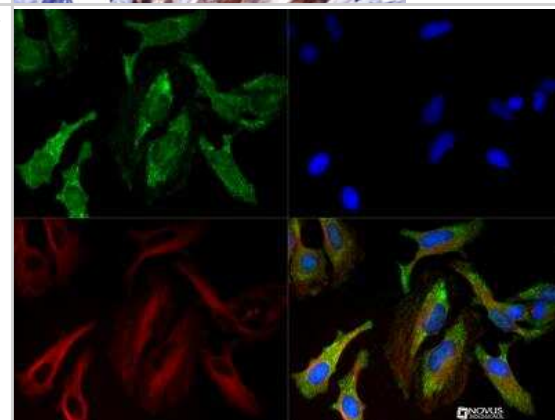


## Images

Immunohistochemistry: Collagen I alpha 1 Antibody [NBP1-77457] - Collagen I Antibody [NBP1-77457] - Analysis of Collagen 1 in mouse epidermis using DAB with hematoxylin counterstain.



Immunocytochemistry/Immunofluorescence: Collagen I alpha 1 Antibody [NBP1-77457] - Collagen 1 antibody was tested in Hela cells with DyLight 488 (green). Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).



## Publications

Li M, Zhou S, Wu Y et al. Prenatal exposure to propylparaben at human-relevant doses accelerates ovarian aging in adult mice Environmental Pollution 2021-09-01 [PMID: 33957517]

S. Kara, M. Akbaba, S. Kul, K. Bakır Is it possible to make early wound age estimation by immunohistochemical methods? Rom J Leg Med 2016-01-01 (IF/IHC, Mouse)

## Procedures

### **Immunohistochemistry-Paraffin Embedded Sections protocol specific for Collagen I antibody (NBP1-77457)**

Collagen I alpha 1 Antibody:

Immunohistochemistry-Paraffin Embedded Sections

Antigen Unmasking:

Bring slides to a boil in 10 mM sodium citrate buffer (pH 6.0) then maintain at a sub-boiling temperature for 10 minutes. Cool slides on bench-top for 30 minutes.

Staining:

1. Wash sections in deionized water three times for 5 minutes each.
2. Wash sections in wash buffer for 5 minutes.
3. Block each section with 100-400 ul blocking solution for 1 hour at room temperature.
4. Remove blocking solution and add 100-400 ul diluted primary antibody. Incubate overnight at 4C.
5. Remove antibody solution and wash sections in wash buffer three times for 5 minutes each.
6. Add 100-400 ul biotinylated diluted secondary antibody. Incubate 30 minutes at room temperature.
7. Remove secondary antibody solution and wash sections three times with wash buffer for 5 minutes each.
8. Add 100-400 ul Streptavidin-HRP reagent to each section and incubate for 30 minutes at room temperature.
9. Wash sections three times in wash buffer for 5 minutes each.
10. Add 100-400 ul DAB substrate to each section and monitor staining closely.
11. As soon as the sections develop, immerse slides in deionized water.
12. Counterstain sections in hematoxylin.
13. Wash sections in deionized water two times for 5 minutes each.
14. Dehydrate sections.
15. Mount coverslips.

\*The above information is only intended as a guide. The researcher should determine what protocol best meets their needs. Please follow safe laboratory procedures.





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### **Products Related to NBP1-77457**

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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
NBP1-77457B	Collagen I alpha 1 Antibody [Biotin]

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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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