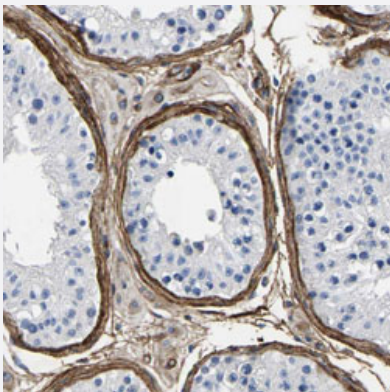


# COL6A1 polyclonal antibody

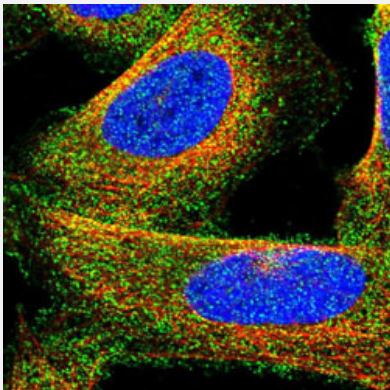
Catalog # PAB30805      Size 100 uL

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human testis with COL6A1 polyclonal antibody (Cat # PAB30805) shows distinct positivity in collagen.



### Immunofluorescence

Immunofluorescent staining of U-2 OS with COL6A1 polyclonal antibody (Cat # PAB30805) (Green) shows positivity in cytoplasm.

## Specification

|                     |                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------|
| Product Description | Rabbit polyclonal antibody raised against partial recombinant human COL6A1.             |
| Immunogen           | Recombinant protein corresponding to human COL6A1.                                      |
| Sequence            | VSVGKDVDFDFIPGSDQLNVISCQGLAPSQGRPGLSLVKENYAELEDAFLKNVTAQICIDKKCPDY<br>TCPITFSSPADITILLD |
| Host                | Rabbit                                                                                  |
| Reactivity          | Human                                                                                   |

|                     |                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form                | Liquid                                                                                                                                                                                      |
| Purification        | Antigen affinity purification                                                                                                                                                               |
| Isotype             | IgG                                                                                                                                                                                         |
| Recommend Usage     | Immunofluorescence (1-4 ug/mL)<br>Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:500-1:1000)<br>The optimal working dilution should be determined by the end user. |
| Storage Buffer      | In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).                                                                                                                                          |
| Storage Instruction | Store at 4°C. For long term storage store at -20°C.<br>Aliquot to avoid repeated freezing and thawing.                                                                                      |
| Note                | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                      |

## Applications

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## Gene Info — COL6A1

|                    |                                                                                             |
|--------------------|---------------------------------------------------------------------------------------------|
| Entrez GeneID      | <a href="#">1291</a>                                                                        |
| Protein Accession# | <a href="#">P12109</a>                                                                      |
| Gene Name          | COL6A1                                                                                      |
| Gene Alias         | OPLL                                                                                        |
| Gene Description   | collagen, type VI, alpha 1                                                                  |
| Omim ID            | <a href="#">120220</a> <a href="#">158810</a> <a href="#">254090</a> <a href="#">602475</a> |
| Gene Ontology      | <a href="#">Hyperlink</a>                                                                   |

**Gene Summary**

The collagens are a superfamily of proteins that play a role in maintaining the integrity of various tissues. Collagens are extracellular matrix proteins and have a triple-helical domain as their common structural element. Collagen VI is a major structural component of microfibrils. The basic structural unit of collagen VI is a heterotrimer of the alpha1(VI), alpha2(VI), and alpha3(VI) chains. The alpha2(VI) and alpha3(VI) chains are encoded by the COL6A2 and COL6A3 genes, respectively. The protein encoded by this gene is the alpha 1 subunit of type VI collagen (alpha1(VI) chain). Mutations in the genes that code for the collagen VI subunits result in the autosomal dominant disorder, Bethlem myopathy. [provided by RefSeq]

**Other Designations**

alpha 1 (VI) chain (61 AA)|collagen VI, alpha-1 polypeptide

**Pathway**

- [ECM-receptor interaction](#)
- [Focal adhesion](#)

**Disease**

- [Alzheimer disease](#)
- [Cerebral Amyloid Angiopathy](#)
- [Disease Progression](#)
- [Genetic Predisposition to Disease](#)
- [Hyperostosis](#)
- [Neuroblastoma](#)
- [Ossification of Posterior Longitudinal Ligament](#)
- [Spondylitis](#)
- [Uveitis](#)