

RecomAb™

COL6A1 recombinant monoclonal antibody, clone R09-8I1

Catalog # RAB01496 Size 100 uL

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human Collagen VI.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein corresponding to human Collagen VI
Theoretical MW (kDa)	Calculated MW: 109 k
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunofluorescence (1:50-1:200) Immunohistochemistry (1:50-1/100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C for short term. For long term storage store at -20°C. 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

- Western Blot
- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

- Immunohistochemistry (Frozen sections)
- Immunocytochemistry

Gene Info — COL6A1

Entrez GeneID [1291](#)

Protein Accession# [P12109](#)

Gene Name COL6A1

Gene Alias OPLL

Gene Description collagen, type VI, alpha 1

Omim ID [120220](#) [158810](#) [254090](#) [602475](#)

Gene Ontology [Hyperlink](#)

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](#)