

## Anti-COL3A1 antibody



### Description

COL3A1 is a protein encoded by the COL3A1 gene which is approximately 138,5 kDa. COL3A1 is secreted into the extracellular space and matrix. It is involved in collagen chain trimerization, integrin pathway, ERK signalling, phospholipase-C pathway and binding and uptake of ligands by scavenger receptors. It is involved in regulation of cortical development and is a major ligand of ADGRG1 in the developing brain. COL3A1 is expressed in skin, pancreas, bone, liver and lung. Mutations in the COL3A1 gene result in Ehlers-Danlos syndrome and thoracic aortic aneurysms. STJ92388 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. This polyclonal antibody detects endogenous levels of COL3A1 protein.

<b>Model</b>	STJ92388
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human, Mouse, Rat
<b>Applications</b>	ELISA, FC, IF, IHC
<b>Immunogen</b>	Synthesized peptide derived from human COL3A1
<b>Immunogen Region</b>	50-130 aa, N-terminal
<b>Gene ID</b>	<a href="#">1281</a>
<b>Gene Symbol</b>	<a href="#">COL3A1</a>
<b>Dilution range</b>	IHC 1:100-1:300IF 1:200-1:1000ELISA 1:10000
<b>Specificity</b>	COL3A1 Polyclonal Antibody detects endogenous levels of COL3A1 protein.
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

<b>Note</b>	For Research Use Only (RUO).
<b>Protein Name</b>	Collagen alpha-1 III chain
<b>Molecular Weight</b>	95 kDa
<b>Clonality</b>	Polyclonal
<b>Conjugation</b>	Unconjugated
<b>Isotype</b>	IgG
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Concentration</b>	1 mg/ml
<b>Storage Instruction</b>	Store at -20°C, and avoid repeat freeze-thaw cycles.
<b>Database Links</b>	<a href="https://www.ncbi.nlm.nih.gov/clinvar/variation/120180">HGNC:2201OMIM:120180</a>
<b>Alternative Names</b>	Collagen alpha-1 III chain
<b>Function</b>	Collagen type III occurs in most soft connective tissues along with type I collagen. Involved in regulation of cortical development. Is the major ligand of ADGRG1 in the developing brain and binding to ADGRG1 inhibits neuronal migration and activates the RhoA pathway by coupling ADGRG1 to GNA13 and possibly GNA12.
<b>Sequence and Domain Family</b>	The C-terminal propeptide, also known as COLFI domain, have crucial roles in tissue growth and repair by controlling both the intracellular assembly of procollagen molecules and the extracellular assembly of collagen fibrils. It binds a calcium ion which is essential for its function.
<b>Cellular Localization</b>	Secreted, extracellular space, extracellular matrix
<b>Post-translational Modifications</b>	Proline residues at the third position of the tripeptide repeating unit (G-X-Y) are hydroxylated in some or all of the chains. O-linked glycan consists of a Glc-Gal disaccharide bound to the oxygen atom of a post-translationally added hydroxyl group.