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# Product datasheet for TA344339

## Collagen I (COL1A2) Rabbit Polyclonal Antibody

### Product data:

| | |
|---|---|
| **Product Type:** | Primary Antibodies |
| **Applications:** | WB |
| **Recommended Dilution:** | WB |
| **Reactivity:** | Human |
| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Immunogen:** | The immunogen for anti-COL1A2 antibody: synthetic peptide directed towards the middle region of human COL1A2. Synthetic peptide located within the following region: PGSVGPAGPRGPAGPSGPAGKDGRTGHPGTVGPAGIRGPQGHQGPAGPPG |
| **Formulation:** | Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.<br>*Note that this product is shipped as lyophilized powder to China customers.* |
| **Purification:** | Affinity Purified |
| **Conjugation:** | Unconjugated |
| **Storage:** | Store at -20°C as received. |
| **Stability:** | Stable for 12 months from date of receipt. |
| **Predicted Protein Size:** | 150 kDa |
| **Gene Name:** | collagen type I alpha 2 chain |
| **Database Link:** | NP_000080<br>Entrez Gene 1278 Human<br>P08123 |

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**Background:** COL1A2 is the pro-alpha2 chain of type I collagen whose triple helix comprises two alpha1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIB, recessive Ehlers-Danlos syndrome Classical type, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe than mutations in the gene for the alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix integrity.This gene encodes the pro-alpha2 chain of type I collagen whose triple helix comprises two alpha1 chains and one alpha2 chain. Type I is a fibril-forming collagen found in most connective tissues and is abundant in bone, cornea, dermis and tendon. Mutations in this gene are associated with osteogenesis imperfecta types I-IV, Ehlers-Danlos syndrome type VIIB, recessive Ehlers-Danlos syndrome Classical type, idiopathic osteoporosis, and atypical Marfan syndrome. Symptoms associated with mutations in this gene, however, tend to be less severe than mutations in the gene for the alpha1 chain of type I collagen (COL1A1) reflecting the different role of alpha2 chains in matrix integrity. Three transcripts, resulting from the use of alternate polyadenylation signals, have been identified for this gene. [provided by R. Dalgleish]. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

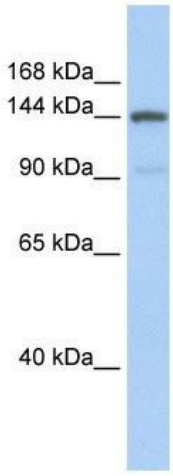
**Synonyms:** OI4

**Note:** Immunogen Sequence Homology: Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Bovine: 100%; Guinea pig: 100%; Dog: 93%; Rabbit: 86%; Zebrafish: 85%; Goat: 79%; Mouse: 79%

**Protein Families:** Druggable Genome

**Protein Pathways:** ECM-receptor interaction, Focal adhesion

## Product images:




WB Suggested Anti-COL1A2 Antibody Titration: 0.2-1 ug/ml; ELISA Titer: 1:62500; Positive Control: Human Liver