



Anti-Collagen Type II polyclonal antibody (DPAB1182RR)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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|---------------------------|---|
| Specificity | Cross-reactivity: (RIA%) Rat Collagen Type II 100% Rat Collagen Type I <0.1% Rat elastin, fibronectin <0.1% |
| Immunogen | Collagen Type II extracted and purified from rat fetal cartilage |
| Isotype | IgG |
| Source/Host | Rabbit |
| Species Reactivity | Rat |
| Purification | Ion exchange chromatography (DEAE-Trisacryl) |
| Conjugate | Unconjugated |
| Applications | For immunostaining of extra or intracellular components in light microscopy. For the quantitation of Collagen Type II in biological fluids or in culture supernatants. IFA (with fluorescein anti-rabbit IgG conjugate): use diluted at >1:40 on frozen rat cartilage tissues. IHC(p) (immunoperoxidase technique): use diluted at >1:250 on fixed paraffin-embedded rat cartilage tissues. ELISA: use diluted at >1:100 – 1:200 (OD>500) Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded. |
| Format | Purified, Lyophilized. Reconstitute with 0.5ml deionized water. |
| Concentration | Not applicable |
| Size | 0.5 ml |
| Buffer | Not applicable |

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| Preservative | See individual product datasheet |
| Storage | Lyophilized: Short-term (up to 24 months) store at 2-8°C. Long term, store at -20°C. Reconstituted: Store (up to 6 months) at -20°C. Aliquot to avoid multiple freeze/thaw cycles. |

GENE INFORMATION

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| Gene Name | Col2a1 collagen, type II, alpha 1 [Rattus norvegicus] |
| Official Symbol | Col2a1 |
| Synonyms | Col2a1; collagen, type II, alpha 1; CG2A1A; COL2A1; collagen alpha-1(II) chain; Procollagen II alpha 1; alpha-1 type II collagen; collagen type II (Col2A1) gene, enhancer region; MGC131516; Alpha-1 type II collagen; SEDC; collagen, type II, alpha 1 (primary osteoarthritis, spondyloepiphyseal dysplasia, congenital); cartilage collagen; ANFH; chondrocalcin; AOM; COL11A3; collagen II, alpha-1 polypeptide; Collagen II |
| Entrez Gene ID | 25412 |
| Protein Refseq | NP_037061 |
| UniProt ID | P05539 |
| Chromosome Location | 7q36 |
| Pathway | Amoebiasis; Amoebiasis; ECM-receptor interaction; Endochondral Ossification; Focal adhesion; Integrin cell surface interactions; NCAM signaling for neurite out-growth; NCAM1 interactions; Protein digestion and absorption; Signaling by PDGF |
| Function | extracellular matrix structural constituent; platelet-derived growth factor binding |