

Anti-Collagen Type II (RABBIT) Antibody Peroxidase Conjugated
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Catalog # ASR5804**Specification****Anti-Collagen Type II (RABBIT) Antibody Peroxidase Conjugated - Product Information**

Host	Rabbit
Conjugate	Peroxidase (Horseradish)
Target Species	Mammalian
Reactivity	Human, Bovine
Clonality	Polyclonal
Application	WB, IHC, E, IP, I, LCI
Application Note	Anti-Collagen Type II Peroxidase Conjugated Antibody is suitable for western blotting, IP, IHC and for ELISA. Researchers should determine optimal titers for applications that are not stated below.
Physical State	Lyophilized
Buffer	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Immunogen	Anti-Collagen Type II antibody was produced by repeated immunizations with Collagen Type II from adult human knee cartilage and bovine nasal cartilage.
Reconstitution Volume	50 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Thimerosal

Anti-Collagen Type II (RABBIT) Antibody Peroxidase Conjugated - Additional Information**Gene ID** 1280**Other Names**
1280**Purity**

This product has been prepared by immunoaffinity chromatography using immobilized antigens followed by extensive cross-adsorption against other collagens. Some class specific anti-collagens may be specific for three-dimensional epitopes which may result in diminished reactivity with denatured collagen or formalin-fixed, paraffin embedded tissues. This antibody reacts with most mammalian Type II collagens and has expected cross-reactivity with Type IV and VI and negligible cross reactivity to Type I, III and V collagens. Non-specific cross reaction of anti-collagen antibodies with other human serum proteins or non-collagen extracellular matrix proteins has not been tested.

Storage Condition

Store vial at 4° C prior to restoration. Restore with 0.05 mL of deionized water (or equivalent). For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Precautions Note

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

Anti-Collagen Type II (RABBIT) Antibody Peroxidase Conjugated - Protein Information

Name COL2A1 ([HGNC:2200](#))

Function

Type II collagen is specific for cartilaginous tissues. It is essential for the normal embryonic development of the skeleton, for linear growth and for the ability of cartilage to resist compressive forces.

Cellular Location

Secreted, extracellular space, extracellular matrix {ECO:0000255|PROSITE-ProRule:PRU00793}

Tissue Location

Isoform 2 is highly expressed in juvenile chondrocyte and low in fetal chondrocyte.

Anti-Collagen Type II (RABBIT) Antibody Peroxidase Conjugated - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Collagen Type II (RABBIT) Antibody Peroxidase Conjugated - Images**Anti-Collagen Type II (RABBIT) Antibody Peroxidase Conjugated - Background**

Anti-Collagen Type II antibody detects Type-II collagen which is the basis for articular cartilage and hyaline cartilage. It makes up 50% of all protein in cartilage and 85-90% of collagen of articular cartilage. Type II collagen does form fibrils which allow cartilage to entrap the proteoglycan aggregate as well as provide tensile strength to the tissue. Anti-Collagen Type II antibody is ideal for investigators involved in Immunology, Neuroscience and Signal Transduction research.