

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse Collagen II in direct ELISAs and Western blots.
Source	Polyclonal Sheep IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse sternum-derived Collagen II
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.

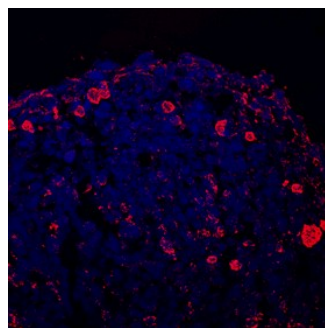
APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	Mouse Collagen II
Immunocytochemistry	5-15 µg/mL	See Below

DATA

Immunocytochemistry



Collagen II in Mouse Chondrocytes.

Collagen II was detected in immersion fixed mouse mesenchymal stem cell-differentiated chondrocytes using 10 µg/mL Sheep Anti-Mouse Collagen II Antigen Affinity-purified Polyclonal Antibody (Catalog # AF3615) for 3 hours at room temperature. Cells were stained with the NorthernLights™ 557-conjugated Anti-Sheep IgG Secondary Antibody (red; Catalog # NL010) and counterstained with DAPI (blue). View our protocol for [Fluorescent ICC Staining of Cells on Coverslips](#).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	<p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Mouse Type II Collagen is a 100 kDa fibrillar collagen found in cartilage, vitreous body and vertebral disk. It is synthesized as a 1459 amino acid (aa) preproprecursor that contains an N-terminal and a C-terminal proregion. Intracellularly, type II Collagen homotrimerizes into a fibril and is then secreted. The proregions are then cleaved by procollagenases and the processed homotrimer covalently crosslinks to other type II fibrils. Mature mouse Collagen II shares 95% and 98% aa sequence identity with human and rat Collagen II, respectively.