Mouse Collagen II Antibody

Antigen Affinity-purified Polyclonal Sheep IgG
Catalog Number: AF3615

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. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

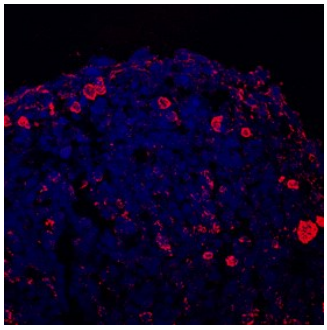
APPLICATIONS

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 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.

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