

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human Chondroadherin in direct ELISAs and Western Blots.
<b>Source</b>	Polyclonal Sheep IgG
<b>Purification</b>	Antigen Affinity-purified
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant Chondroadherin Cys23-His359 Accession # O15335
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.

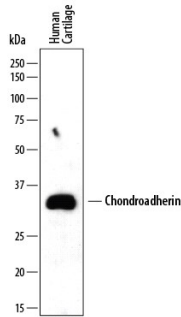
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Western Blot</b>	2 µg/mL	See Below
<b>Immunohistochemistry</b>	5-15 µg/mL	See Below

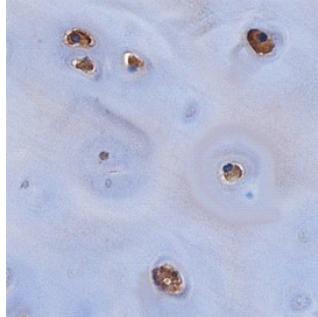
## DATA

**Western Blot**



**Detection of Human Chondroadherin by Western Blot.** Western blot shows lysates of human cartilage tissue. PVDF membrane was probed with 2 µg/mL of Sheep Anti-Human Chondroadherin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8218) followed by HRP-conjugated Anti-Sheep IgG Secondary Antibody (Catalog # HAF016). A specific band was detected for Chondroadherin at approximately 34-36 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

**Immunohistochemistry**



**Chondroadherin in Human Cartilage.** Chondroadherin was detected in immersion fixed paraffin-embedded sections of human cartilage using Sheep Anti-Human Chondroadherin Antigen Affinity-purified Polyclonal Antibody (Catalog # AF8218) at 1 µg/mL overnight at 4 °C. Tissue was stained using the Anti-Sheep HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # CTS019) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm of chondrocytes. View our protocol for [Chromogenic IHC Staining of Paraffin-embedded Tissue Sections](#).

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.2 mg/mL in sterile PBS.
<b>Shipping</b>	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
<b>Stability &amp; Storage</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## BACKGROUND

Chondroadherin is an approximately 36 kDa secreted glycosaminoglycan that contains nine tandem leucine-rich repeats as well as N-terminal and C-terminal leucine-rich domains. It is a component of the extracellular matrix in cartilage, tendon, bony growth plates, skeletal and cardiac muscle, lung, gastrointestinal tract, pancreas, cerebellum, and eye. It is cleaved by HTRA1/Omi during intervertebral disc degeneration. Chondroadherin functions as an adhesion protein by binding to integrin α2/β1, Collagen II, and Collagen VI. It also promotes complement activation through binding to C1q and Complement Factor H. Mature human Chondroadherin shares 94% amino acid sequence identity with mouse and rat Chondroadherin.