

## **Human Aggrecan (ADAMTS5-cleaved) Antibody**

Monoclonal Mouse IgG<sub>2B</sub> Clone # 725913

Catalog Number: MAB64892

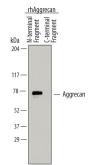
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human Aggrecan in direct ELISAs. It specifically recognizes the N-terminal fragment of recombinant human Aggrecan released following cleavage by ADAMTS5.		
Source	Monoclonal Mouse IgG <sub>2B</sub> Clone # 725913		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	KLHG-conjugated human Aggrecan synthetic peptide Leu384-Glu392 Accession # P16112		
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 either lyophilized or as a 0.2 µm filtered solution in PBS.		

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	2 μg/mL	See Below

# DATA

## Western Blot



Detection of Human Aggrecan (ADAMTS5-cleaved) by Western Blot. Western blot shows recombinant human Aggregan N-terminal and C-terminal fragments. PVDF membrane was probed with 2 µg/mL of Mouse Anti-Human Aggrecan Monoclonal Antibody (Catalog # MAB64892) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog # HAF007). A specific band was detected for the Aggrecan N-terminal fragment at approximately 75 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

### PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
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.

Aggrecan, together with type II collagen, makes up to 90% of the dry weight of healthy cartilage. It hydrates the collagen network and thus provides cartilage with its properties of compressibility and elasticity. The N-terminal region of human Aggrecan (residues 20-675) consists of two globular domains (G1 and G2), flanking an interglobular domain (IGD). The IGD contains the cleavage sites for matrix metalloproteinases and aggrecanases.

