Human Aggrecan (ADAMTS5-cleaved) Antibody

Monoclonal Mouse IgG_3 Clone # 661725

Catalog Number: MAB6489

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_3 Clone # 661725
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	KLHG-conjugated peptide from human Aggrecan, 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.

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
Immunoprecipitation	25 µg/mL	Conditioned cell culture medium spiked with ADAMTS5 cleaved recombinant human aggrecan, see our available Western blot detection antibodies

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.

BACKGROUND

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.

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