

Aggrecan Monoclonal Antibody (7E1)

Catalog NumberMA1-80187

Product data sheet

Details	
Size	200 µL
Host/Isotope	Mouse / IgM
Class	Monoclonal
Type	Antibody
Clone	7E1
Immunogen	Human cartilage aggrecan.
Conjugate	Unconjugated
Form	Liquid
Storage Conditions	4°C or -20°C if preferred

Species Reactivity	
Species reactivity	Bovine, Human
Tested Applications	
Immunohistochemistry (Frozen) (IHC (F))	Dilution * Assay-dependent

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

This antibody does not react with chicken, fish or rat.

Background/Target Information

Aggrecan also known as cartilage-specific proteoglycan core protein (CSPCP) or chondroitin sulfate proteoglycan 1 is a protein that is encoded by the ACAN gene. The encoded protein is an integral part of the extracellular matrix in cartilaginous tissue and it withstands compression in cartilage. The human form of the protein is 2316 amino acids long (approximately 250 kDa) and can be expressed in multiple isoforms due to alternative splicing. Aggrecan exhibits a bottlebrush structure, in which chondroitin sulfate and keratan sulfate chains are attached to an extended protein core. The synthesis and degradation of aggrecan are being investigated for their roles in cartilage deterioration during joint injury, disease, and aging. It contains three interglobular domains (IGDs), G1, G2, and G3 that are involved in aggregation, hyaluronan binding, cell adhesion, and chondrocyte apoptosis. Aggrecan fragments from articular cartilage are released into the synovial fluid at all stages of human osteoarthritis as a result of cleavage by aggrecanase and MMP activity. Antibodies BC-3 and BC-4 can be used to detect these neo epitopes of Aggrecanase (ARGSVXXX) and MMP (XXXVDIPEN), respectively.

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