Aggrecan Antibody to C-terminal neoepitope NITEGE
Mouse monoclonal Antibody
Catalog Number 1042003

INTRODUCTION
Aggrecan is a member of a family of large, aggregating proteoglycans (also including versican, brevican and neurocan) which is found in articular cartilage. Aggrecan is composed of three major domains: G1, G2, and G3. Between the G1 and G2 domains there is an interglobulin region (IGD). The IGD region is the major site of cleavage by specific proteases like metalloproteinases (MMPs) and aggrecanase. Aggrecan cleavage has been associated with a number of degenerative diseases including rheumatoid arthritis and osteoarthritis. There is evidence that this family of proteoglycans modulates cell adhesion, migration, and axonal outgrowth in the CNS.

This aggrecan degradation product usually remains within the tissue still complexed to hyaluronan and link protein. Its release from the cartilage usually signals that there has been extensive catabolism of aggrecan, which allows large complexes containing this metabolite to be released from the tissue.

IMMUNOGEN
NITEGE synthetic peptide conjugate.

CLONE
BC-13

HOST
Mouse

MYELOMA
x63-Ag8.653

ISOTYPE
IgG1

LIGHT CHAIN TYPE
kappa

SPECIFICITY
Recognizes the aggrecanase (ADAMTS-1, -4 & -5)-generated C-terminal neoepitope ...TEGE after cleavage between amino acids ..EGE373 and 374ARG.. within the interglobular domain of aggrecanase-catabolised aggrecan (Human aggrecan sequence enumeration).

This antibody cross-reacts with Human, Cow, Dog, Horse, Pig.
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PURITY
Affinity purified on protein G

STORAGE BUFFER
PBS, no preservatives

FORM
Liquid, 1 mL/vial

CONCENTRATION
0.1 mg/mL

APPLICATION
• Western-Blotting
  Suggested dilution: 1:100
  Detects a a band of approximately 60-70 kDa
• ELISA
• IHC

TECHNICAL NOTES
Samples are usually deglycosylated using 0.01 Units chondroitinase ABC (Sigma), 0.01 Units Keratanase (Seikagaku) and 0.0001 Units Keratanase II (Seikagaku) per 10µg S-GAG of non-deglycosylated aggrecan for optimal epitope recognition in SDS-PAGE and immunohistochemistry (1, 2).

STORAGE
The antibody is stable until the expiry date given on the label if stored at -20 °C. Repeated freezing and thawing should be avoided. Aliquoting is recommended.

EXPIRATION
See Vial Label

REFERENCES