

**Aggrecan Antibody to N-terminal Neoepitope FFGV  
Mouse Monoclonal Antibody**

**Catalog Number 1042004**

*For research use only*

<b>INTRODUCTION</b>	This fragment is rapidly released from the tissue when MMP catabolism of aggrecan occurs and has been identified in synovial fluid samples from patients with degenerative joint diseases.
<b>CLONE</b>	BC-14
<b>HOST</b>	Mouse
<b>MYELOMA</b>	x63-Ag8.653
<b>ISOTYPE</b>	IgG2a
<b>LIGHT CHAIN TYPE</b>	kappa
<b>SPECIFICITY</b>	Recognizes the N-terminal neoepitope sequence (FFGV..) generated at the "MMP cleavage site" after MMP catabolism in the interglobular domain of aggrecan between amino acids ..PEN341 and 342FFG.. (Human sequence enumeration).  This antibody cross-reacts with Human, Rat, Cow, Guinea pig, Horse, Pig.
<b>PURITY</b>	Affinity purified on protein G

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<b>STORAGE BUFFER</b>	PBS, no preservatives
<b>FORM</b>	Liquid
<b>CONCENTRATION</b>	Please see vial label for concentration.
<b>APPLICATION</b>	<ul style="list-style-type: none"><li>• Western-Blotting Suggested dilution: 1:100 Detects a a band of approximately 60 - 150 kDa</li><li>• ELISA</li><li>• IHC</li></ul>
<b>TECHNICAL NOTES</b>	<p>This antibody should work in IHC on formalin- or paraformaldehyde-fixed paraffin embedded sections as well as either alcohol-fixed frozen sections or un-fixed snap-frozen sections.</p> <p>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).</p>
<b>STORAGE</b>	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.
<b>EXPIRATION</b>	See Vial Label
<b>REFERENCES</b>	<ol style="list-style-type: none"><li>1. Little CB et al. Matrix metalloproteinases are involved in C-terminal and interglobular domain processing of cartilage aggrecan in late-stage cartilage degradation. <i>Matrix Biol</i> 21:271-88 (2002).</li><li>2. Caterson B et al. Mechanisms involved in cartilage proteoglycan catabolism. <i>Matrix Biol</i> 19:333-44 (2000)</li></ol>

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