

## Monoclonal Antibody to Hyaluronic Acid Binding Region of Aggrecan

**Catalog Number 1042012**

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<b>INTRODUCTION</b>	In cartilage and many other tissues the hyaluronic acid binding site is at the amino (N-) terminus of the G1 domain of the chondroitin sulphate/ keratan sulphate GAG-substituted proteoglycan monomer aggrecan. This interaction with hyaluronic acid forms large proteoglycan aggregates in cartilage and several other tissues.
<b>IMMUNOGEN</b>	Reduced and alkylated aggrecan monomer isolated from rat chondrosarcoma.
<b>CLONE</b>	1C6
<b>HOST</b>	Mouse
<b>ISOTYPE</b>	IgG
<b>SPECIFICITY</b>	Amino acid sequence ...QLQAAY... that is present both the G1 and G2 domains of cartilage aggrecan. This antibody reacts with human, pig, bovine, dog, rat, mouse, chicken and xenopus.
<b>PURITY</b>	Affinity purified
<b>STORAGE BUFFER</b>	PBS, no preservatives
<b>FORM</b>	Clear liquid

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<b>CONCENTRATION</b>	Please see vial label for concentration.
<b>APPLICATION</b>	Reduction and alkylation is required to denature the G1 and G2 domain of the aggrecan core protein and expose the epitope. <ul style="list-style-type: none"><li>• Western Blot (Ripellino et al 1989 ref 2)</li><li>• IHC (Ripellino et al 1989 ref 2)</li></ul>
<b>TECHNICAL NOTES</b>	No enzyme pretreatment required. However, reduction and alkylation prior to detection is recommended.
<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. Calabro A, Hascall VC, Caterson B (1992) Arch Biochem Biophys 298:349-360</li><li>2. Ripellino et al (1989) Brain J. Cell Biology 108: 1899-1907</li><li>3. Caterson, B., Calabro, T., Donohue, P.J., and Jahnke, M.R. (1986). In: Articular Cartilage Biochemistry (K. Kuettner et al., editors), pp. 59-73, Raven Press, New York.</li><li>4. Milz, S., Schlueter, T., Putz, R., Moriggl, B., Ralphs, J.R., and Benjamin, M. (2001). Spine 26(16), 1765-1771.</li><li>5. Milz, S., Valassis, G., Buettner, A., Maier, M., Putz, R., Ralphs, J.R., and Benjamin, M. (2001). J. Anat. 198, 223-228.</li><li>6. Milz, S., Regner, F., Putz, R., and Benjamin, M. (2002). Invest. Ophthalmol. Vis. Sci. 43(5), 1330-1334.</li></ol>

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