

## Monoclonal Antibody to Cartilage Link Protein

**Catalog Number 1042013**

*For research use only*

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| <b>INTRODUCTION</b>   | Link protein (LP) is a glycoprotein present in cartilage that stabilizes the interaction of aggrecan (versican) with hyaluronic acid (HA) in large proteoglycan aggregates.  |
| <b>IMMUNOGEN</b>      | Link Protein from Bovine nasal cartilage   |
| <b>CLONE</b>          | 8A4  |
| <b>HOST</b>           | Mouse  |
| <b>ISOTYPE</b>        | IgG  |
| <b>SPECIFICITY</b>    | This antibody recognizes the structurally related amino acid sequence epitopes ... PISRP... and ....PITKP that occur in the two proteoglycan tandem repeat motifs of cartilage LP. This antibody can be used to detect intact LP 1,2 & 3 as well as a large number of smaller fragments that are generated through proteolytic cleavage during LP catabolism. It recognizes LP in all animal species from chicken to humans. |
| <b>PURITY</b>         | Affinity purified  |
| <b>STORAGE BUFFER</b> | PBS, no preservatives  |
| <b>FORM</b>           | Clear liquid   |
| <b>CONCENTRATION</b>  | Please see vial label for concentration.   |

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| <b>APPLICATION</b>     | Western Blot (refs 1, 2, 3), IHC, RIA   |
| <b>TECHNICAL NOTES</b> | No enzyme pretreatment required, however chondroitinase and hyaluronidase will increase antibody sensitivity by exposing epitopes. For WB chondroitinase and hyaluronidase treatment is recommended.  |
| <b>STORAGE</b>         | See Vial Label  |
| <b>EXPIRATION</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>REFERENCES</b>      | <ol style="list-style-type: none"><li>1. Caterson, B., Baker, J.R., Christner, J.E., Lee, Y., and Lentz, M. (1985) <i>J. Biol. Chem</i> 260, 11348-11356.</li><li>2. Hughes et al (1992) <i>J. Biol. Chem.</i> 267, 16011-16014</li><li>3. Donahue, Caterson. etal (1988).Characterization of link proteins(s) from <i>J. Biochem.</i> 251, 739-747.</li><li>4. Hayes et al (2008) <i>Methods</i> 45: 10-21.</li><li>5. Boszczyk, B.M., Boszczyk, A.A., Putz, R., Buettner, A., Benjamin, M., and Milz, S. (2001). <i>Spine</i> 26(15), E338-E343.</li><li>6. Milz, S., Schlueter, T., Putz, R., Moriggl, B., Ralphs, J.R., and Benjamin, M. (2001) <i>Spine</i> 26(16), 1765-1771.</li><li>7. Milz, S., Valassis, G., Buettner, A., Maier, M., Putz, R., Ralphs, J.R., and Benjamin, M. (2001) <i>J. Anat.</i> 198, 223-228.</li><li>8. Milz, S., Regner, F., Putz, R., and Benjamin, M. (2002) <i>Invest. Ophthalmol. Vis. Sci.</i> 43(5), 1330-1334.</li></ol> |

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