

## Monoclonal Antibody to Bovine Lubricin Epitope

**Catalog Number 1042015**

*For research use only*

<b>INTRODUCTION</b>	Lubricin, also called superficial zone protein (SZP) and proteoglycan 4 (PRG4), is a large water soluble glycoprotein present in synovial fluid and on the surface of articular cartilage, meniscus and tendon where it wraps around bone. It plays an important role in joint lubrication and synovial homeostasis. (2,3,4,5).
<b>IMMUNOGEN</b>	Purified SZP from bovine articular cartilage (1).
<b>CLONE</b>	6A1
<b>HOST</b>	Mouse
<b>ISOTYPE</b>	IgG
<b>SPECIFICITY</b>	This antibody recognizes SZP from bovine articular cartilage (1) and a non conformational epitope in the C terminus of lubricin (6).
<b>PURITY</b>	Protein G
<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>	WB
<b>EXPIRATION</b>	See Vial Label
<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>REFERENCES</b>	<ol style="list-style-type: none"><li>1. Barbara L. Schumacher, Clare E. Hughes, Klaus E. Kuettner, Bruce Caterson, and Margaret B. Aydelotte (1999) Immunodetection and Partial cDNA Sequence of the Proteoglycan, Superficial Zone Protein, Synthesized by Cells Lining Synovial Joints <i>Journal of Orthopaedic Research</i> 17:110-12</li><li>2. Flannery, CR et al (1999) <i>Biochem Biophys Res Commun.</i> 254(3):535-541</li><li>3. Rees, SG et al (2002) <i>Matrix Biol</i> 21(7) 593-602 Immunolocalisation and expression of proteoglycan 4 (cartilage superficial zone proteoglycan) in tendon.</li><li>4. Schumacher BL, Block JA, Schmid TM, Aydelotte MB &amp; Kuettner KE (1994). A novel proteoglycan synthesized and secreted by chondrocytes of the superficial zone of articular cartilage. <i>Arch Biochem Biophys.</i> 311(1): 144-52</li><li>5. Immunodetection and partial cDNA sequence of the proteoglycan, superficial zone protein, synthesized by cells lining synovial joints. Schumacher BL, Hughes CE, Kuettner KE, Caterson B, Aydelotte MB. <i>J Orthop Res.</i> 1999 Jan;17(1):110-20.</li><li>6. Jones et al. Binding and localization of recombinant lubricin to articular cartilage surfaces. <i>J Orthop Res</i> (2007) vol. 25 (3) pp. 283-92</li></ol>

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