

Monoclonal Antibody to Native Bovine Lubricin PRG4 or Superficial Zone Protein/Proteoglycan SZP

Catalog Number 1042011

For research use only

INTRODUCTION	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. (See Schumacher et al 1994, Schumacher et al 1999, Flannery et al 1999 and Rees et al 2002)
IMMUNOGEN	Bovine Supericial Zone Protein (SZP)
CLONE	3A4
ISOTYPE	IgG
HOST	Mouse
PURITY	Affinity purified
SPECIFICITY	Native Bovine Lubricin (SZP, PRG4). Does not recognize reduced or denatured lubricin.
APPLICATIONS	<ul style="list-style-type: none">• ELISA (Klein et al, 2003)• Western Blot (Flannery et al 1999)• Immunohistochemisrty (Rees et al, 2002 and Schumacher et al 1999)
STORAGE BUFFER	PBS, no preservatives
FORM	Clear Liquid
CONCENTRATION	See vial label for concentration

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STORAGE

Store at -20°C. Avoid freeze/thaw cycles. Check label for expiry date.

REFERENCES

1. Klein TJ *et al* (2003) *Osteoarthritis Cartilage* 11(8); 595- 602. Tissue engineering of stratified articular cartilage from chondrocyte subpopulations.
2. Flannery, CR *et al* (1999) *Biochem Biophys Res Commun.* 254(3):535-541
3. Rees, SG *et al* (2002) *Matrix Biol* 21(7) 593-602 Immunolocalisation and expression of proteoglycan 4 (cartilage superficial zone proteoglycan) in tendon.
4. Schumacher BL, Block JA, Schmid TM, Aydelotte MB & Kuettner KE (1994). A novel proteoglycan synthesized and secreted by chondrocytes of the superficial zone of articular cartilage. *Arch Biochem Biophys.* 311(1): 144-52
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. *J Orthop Res.* 1999 Jan;17(1):110-20.

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