bs-11175R **[Primary Antibody]**

Lubricin Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 10216 **SWISS:** Q92954

Target: Lubricin

Immunogen: KLH conjugated synthetic peptide derived from human Lubricin/SZP: 1151-1250/1404.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Lubricin, also designated proteoglycan-4 or megakaryocyte stimulating factor, is important for boundary lubrication within articulating joints. It is a disulfide-linked homodimer (between Cysteine 1146 and Cysteine 1403) that is essential for protein cleavage. Lubricin inhibits synovial cell adhesion to the cartilage surface, but also prevents the deposition of proteins from synovial fluid onto cartilage. Lubricin is highly expressed in cartilage, liver and synovial tissue. Defects in the gene encoding for lubricin can cause Jakobs syndrome, also designated camptodactyly-arthropathy-coxa vara-pericarditis syndrome (CACP). CACP is an autosomal recessive disorder characterized by joint failure associated with noninflammatory synoviocyte hyperplasia and subinitimal fibrosis of the synovial capsule. Lubricin undergoes different levels of glycosylation and may be detected at varying molecular weights.

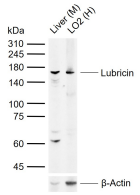
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse, Rat

Predicted MW.: 152 kDa

Subcellular Location: Secreted

VALIDATION IMAGES



Sample: Lane 1: Mouse Liver tissue lysates Lane 2: Human LO2 cell lysates Primary: Anti-Lubricin (bs-11175R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 152 kDa Observed band size: 160 kDa

SELECTED CITATIONS

- **[IF=19.924]** Cairong Li. et al. Integrated and Bifunctional Bilayer 3D Printing Scaffold for Osteochondral Defect Repair. ADV FUNCT MATER. 2023 Feb;:2214158 IF ;Rat. 10.1002/adfm.202214158
- **[IF=8.7]** Yu Han. et al. High-precision bioactive scaffold with dECM and extracellular vesicles targeting 4E-BP inhibition for cartilage injury repair. MATER TODAY BIO. 2024 Aug;27:101114 WB ;Rat. 10.1016/j.mtbio.2024.101114
- **[IF=6.6]** Lina Zhang. et al. YAP maintains cartilage stem/progenitor cell homeostasis in osteoarthritis. J ORTHOP TRANSL. 2024 May;46:79 WB ;Rat. 38817242

- **[IF=4.717]** Liu C et al. Kartogenin enhances the therapeutic effect of bone marrow mesenchymal stem cells derived exosomes in cartilage repair. Nanomedicine (Lond). 2019 Dec 2. IHC ;Rat. 31789105
- **[IF=1.68]** Ren, Xiang, et al. "Engineering zonal cartilage through bioprinting collagen type II hydrogel constructs with biomimetic chondrocyte density gradient."BMC Musculoskeletal Disorders 17.1 (2016): 1. IHC ;="Rabbit". 27439428