

**bs-11054R****[ Primary Antibody ]****BioSS**  
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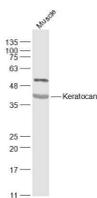
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**Keratocan Rabbit pAb****— DATASHEET —**

<p><b>Host:</b> Rabbit</p> <p><b>Clonality:</b> Polyclonal</p> <p><b>GeneID:</b> 11081</p> <p><b>Target:</b> Keratocan</p> <p><b>Immunogen:</b> KLH conjugated synthetic peptide derived from human Keratocan: 201-300/352.</p> <p><b>Purification:</b> affinity purified by Protein A</p> <p><b>Concentration:</b> 1mg/ml</p> <p><b>Storage:</b> 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.</p> <p><b>Background:</b> Small leucine-rich proteoglycans (SLRPs) such as Decorin, Biglycan, Fibromodulin, Keratocan, Lumican and Osteoglycin mediate extracellular matrix organization and are binding partners of TGF Beta. The Decorin core protein binds to growth factors, intercellular matrix molecules such as Fibronectin and Thrombospondin, and to the Decorin endocytosis receptor. Fibromodulin is a collagen-binding keratan sulphate proteoglycan that influences adhesion processes of connective tissue and plays a role in fibrillogenesis by regulating collagen fibril spacing and thickness. Keratocan (KTN) develops corneal transparency and maintains the stromal matrix structure. Keratocan is a secreted protein in the extracellular matrix that binds to keratan sulfate chains. Keratocan is mainly detected in the cornea, but can also be expressed in trachea, intestine, ovary, lung and skeletal muscle. Defects in the gene encoding for Keratocan can cause cornea plana 2 (CNA2), an autosomal recessive disorder where the forward convex curvature of the cornea is flattened.</p>	<p><b>Isotype:</b> IgG</p> <p><b>SWISS:</b> O60938</p>	<p><b>Applications:</b> WB (1:500-2000)</p> <p><b>Reactivity:</b> Mouse (predicted: Human, Rat, Pig, Sheep, Cow, Dog, Horse)</p> <p><b>Predicted MW.:</b> 38 kDa</p> <p><b>Subcellular Location:</b> Secreted ,Extracellular matrix</p>
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**— VALIDATION IMAGES —**

Sample: Muscle (Mouse) Lysate at 40 ug Primary:  
Anti-Keratocan (bs-11054R) at 1/1000 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at  
1/20000 dilution Predicted band size: 38 kD  
Observed band size: 38 kD

**— SELECTED CITATIONS —**

- **[IF=11.061]** Shuo Jia. et al. Digital light processing-bioprinted poly-NAGA-GelMA-based hydrogel lenticule for precise refractive errors correction. BIOFABRICATION. 2023 Apr;; IF ;Human. 37019117
- **[IF=5.8]** Hongyan Liu. et al. RAD21 deficiency drives corneal to scleral differentiation fate switching via upregulating WNT9B. ISCIENCE. 2024 五月 02 Other ;. 38774716
- **[IF=5.4]** Betül Seher Uysal. et al. Investigation of healing strategies in a rat corneal opacity model with polychromatic

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- light and stem cells injection. J PHOTOCH PHOTOBIO B. 2024 Apr;253:112874 IHC ;Rat. 38422971
- **[IF=5.2]** Friederike Dehli. et al. Biobased photocrosslinkable gelatin-methacrylate hydrogels promote the growth and phenotype maintenance of human corneal keratocytes. Materials Advances. 2025 Apr;; IHC ;Human. 10.1039/D5MA00076A
  - **[IF=4.2]** Chen, Jialin, et al. "Substance P and patterned silk biomaterial stimulate periodontal ligament stem cells to form corneal stroma in a bioengineered three-dimensional model." Stem Cell Research & Therapy 8.1 (2017): 260. ICC ;="Human". 29132420