

## Anti-Biglycan Antibody (9V222)

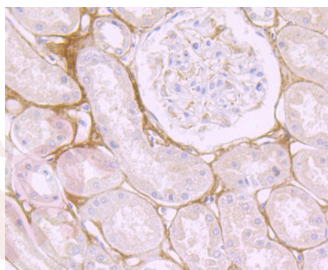
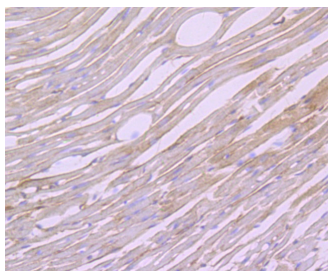
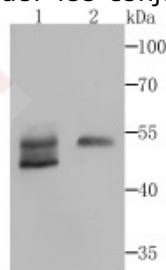
### Product Details

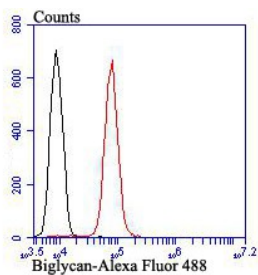
Ig Type:	IgG
Reactivity:	Human,Mouse
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 42 kDa.
Clone:	9V222
Purification:	ProA affinity purified

### Applications

#### Verified Activity:

1. Western blot analysis of Biglycan on mouse heart and human skin tissue lysates using anti-Biglycan antibody at 1/500 dilution.
2. Immunohistochemical analysis of paraffin-embedded mouse heart tissue using anti-Biglycan antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Biglycan antibody. Counter stained with hematoxylin.
4. Flow cytometric analysis of HepG2 cells with Biglycan antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.





Application: FCM,IHC,IP,WB

Recommended WB: 1:500-1000; IHC: 1:50-200; FCM: 1:50-100

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein

Uniprot ID: P21810

Synonyms: PG-S1;DSPG1;SLRR1A;PGI;biglycan

### Research Background

Biglycan, a class I small leucine rich proteoglycan (SLRP) present in the extracellular matrix, influences bone cell differentiation and proliferation. Biglycan contains two chondroitin sulfate glucosaminoglycan (GAG) chains attached near its amino terminus, whereas a closely related SLRP, decorin, contains only one. Biglycan deficient specimens possess diminished capacity to produce bone cells precursors, a lessened response to TGF $\beta$ , reduced collagen synthesis, and increased apoptosis. Patients with rheumatoid arthritis express increased immunity to biglycan whereas osteoarthritis patients do not, suggesting that higher immunity to SLRPs may play a role in the pathogenesis of inflammatory rheumatic diseases.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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