



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

# Certificate of Analysis and Data Sheet

## Goat Anti-Biglycan Preproprotein

### With HRP-conjugated Secondary Antibody

**Catalog No.**  
ER-14-0233

**Accession Number**  
NP\_001702.1

#### ***Target Protein***

**Principal Names:** small leucine-rich protein 1A, dermatan sulphate proteoglycan I, bone/cartilage proteoglycan-I, SLRR1A, PGI, PG-S1, DSPG1, BGN, biglycan, Biglycan Preproprotein

**Official Symbol:** BGN

**Accession Number(s):** NP\_001702.1

**Human GeneID(s):** 633

**Non-Human GeneID(s):** 12111 (mouse), 25181 (rat)

#### ***Immunogen***

Peptide with sequence C-DRLAIQFGNYKK, from the C Terminus of the protein sequence according to NP\_001702.1.

#### ***Purification and Storage***

Purified from goat serum by ammonium sulfate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.

Aliquot and store at -20°C. Minimize freezing and thawing.

#### ***Applications Tested***

**Peptide ELISA:** antibody detection limit dilution 1:8000.

**Western blot:** Approx 38-40kDa band observed in Rat Skin lysates (calculated MW of 41.7kDa according to rat NP\_058783.1 and human NP\_001702.1 ). Recommended concentration: 0.1-0.3µg/ml.

#### ***Species Reactivity***

**Tested:** Rat

**Expected from sequence similarity:** Human, Mouse, Rat, Dog

#### ***Background Reference***

Chen WB, Lenschow W, Tiede K, Fischer JW, Kalthoff H, Ungefroren H.

Smad4/DPC4-dependent regulation of biglycan gene expression by transforming growth factor-beta in pancreatic tumor cells.

J Biol Chem. 2002 Sep 27;277(39):36118-28. Epub 2002 Jul 24. **PMID:** 12140283

**The products are furnished for LABORATORY RESEARCH USE ONLY.**  
**Not for diagnostic or therapeutic use.**



## RayBiotech, Inc.

3607 Parkway Lane suite 200  
Norcross, GA 30092  
Tel: 770-729-2992, 1-888-494-8555  
Fax: 770-206-2393  
Website: [www.raybiotech.com](http://www.raybiotech.com)  
Email: [info@raybiotech.com](mailto:info@raybiotech.com)

---

### *Secondary Antibody Applications*

Immunoassay (ELISA, Western blotting): 1:5,000-1:10,000

### *Images*



ER-14-0233 (0.1 $\mu$ g/ml) staining of Rat Skin lysate (35 $\mu$ g protein in RIPA buffer).  
Primary incubation was 1 hour. Detected by chemiluminescence.

**The products are furnished for LABORATORY RESEARCH USE ONLY.  
Not for diagnostic or therapeutic use.**