



## Rabbit Anti-Bone Sialoprotein antibody

SL4729R

<b>Product Name:</b>	Bone Sialoprotein
<b>Chinese Name:</b>	骨涎蛋白
<b>Alias:</b>	BNSP; Bone sialoprotein II; BSP; BSP II; Cell binding sialoprotein; Integrin binding sialoprotein; SPII; SIAL_HUMAN; Bone sialoprotein 2; BSP II; Cell-binding sialoprotein; Integrin-binding sialoprotein.
<b>Organism Species:</b>	Rabbit
<b>Clonality:</b>	Polyclonal
<b>React Species:</b>	Human,Mouse,Rat,Dog,Pig,Horse,Guinea Pig,
<b>Applications:</b>	WB=1:500-2000ELISA=1:500-1000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
<b>Molecular weight:</b>	35kDa
<b>Cellular localization:</b>	Secretory protein
<b>Form:</b>	Lyophilized or Liquid
<b>Concentration:</b>	1mg/ml
<b>immunogen:</b>	KLH conjugated synthetic peptide derived from mouse Bone Sialoprotein:241-317/317
<b>Lsotype:</b>	IgG
<b>Purification:</b>	affinity purified by Protein A
<b>Storage Buffer:</b>	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
<b>Storage:</b>	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
<b>PubMed:</b>	<a href="#">PubMed</a>
<b>Product Detail:</b>	The protein encoded by this gene is a major structural protein of the bone matrix. It constitutes approximately 12% of the noncollagenous proteins in human bone and is synthesized by skeletal-associated cell types, including hypertrophic chondrocytes, osteoblasts, osteocytes, and osteoclasts. The only extraskeletal site of its synthesis is the trophoblast. This protein binds to calcium and hydroxyapatite via its acidic amino acid clusters, and mediates cell attachment through an RGD sequence that recognizes the

vitronectin receptor. [provided by RefSeq, Jul 2008]

**Function:**

Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. Promotes Arg-Gly-Asp-dependent cell attachment.

**Subcellular Location:**

Secreted.

**Post-translational modifications:**

N-glycosylated; glycans consist of sialylated and core-fucosylated bi-, tri- and tetraantennary chains.

Sulfated on either Tyr-320 or Tyr-321 (By similarity).

**SWISS:**

Q61711

**Gene ID:**

15891

**Database links:**

[Entrez Gene: 3381](#)Human

[Entrez Gene: 15891](#)Mouse

[Entrez Gene: 24477](#)Rat

[Omim: 147563](#)Human

[SwissProt: P21815](#)Human

[SwissProt: Q61711](#)Mouse

[SwissProt: P13839](#)Rat

[Unigene: 518726](#)Human

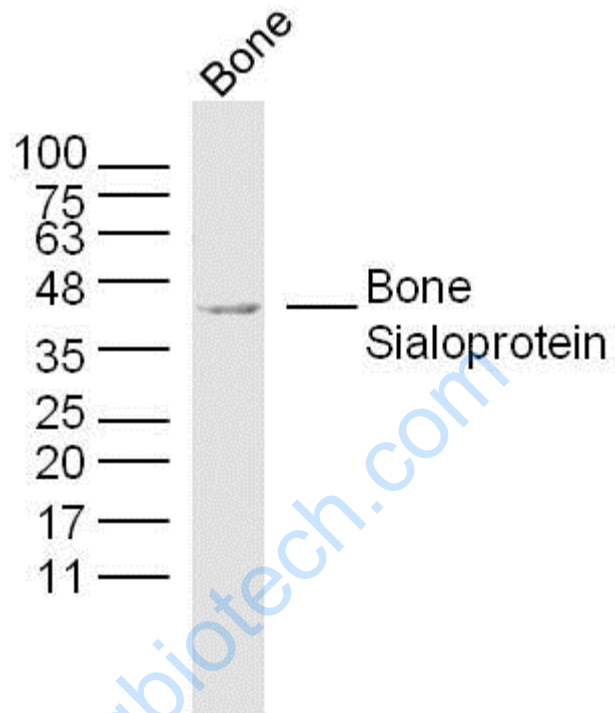
[Unigene: 4987](#)Mouse

[Unigene: 9721](#)Rat

**Important Note:**

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

Picture:



Sample:

Bone (Mouse) Lysate at 40 ug

Primary: Anti- Bone Sialoprotein (SL4729R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 35 kD

Observed band size: 35kD