Product datasheet

Anti-IBSP Antibody

Catalog Number: *A03183*

BOSTER
antibody and ELISA experts
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Basic Information

Product Name	Anti-IBSP Antibody
Gene Name	IBSP
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human IBSP, which shares 88.9% and 87% amino acid (aa) sequence identity with mouse and rat IBSP, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	45-60 kDa
Dilution Ratios	Western blot (WB):1:500-2000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

IBSP (integrin-binding sialoprotein) is also known as BSP. The protein encoded by this gene is a major structural protein of the bone matrix. Bone sialoprotein is an acidic glycoprotein of approximately 70 kD that undergoes extensive posttranslational modifications. 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. The BSP gene is mapped to 4q22.1.

Reference

Anti-IBSP Antibody被引用在5文献中。

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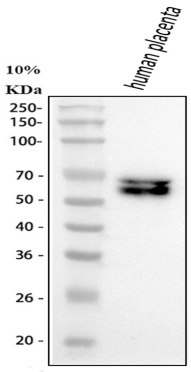
Selected Validation Data



Western blot analysis of IBSP using anti-IBSP antibody (A03183). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human placenta tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-IBSP antigen affinity purified polyclonal antibody (A03183) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for IBSP at approximately 55 kDa. The expected band size for IBSP is at 35 kDa.