

Product datasheet for **AM20240PU-S**

Bone Sialoprotein (IBSP) (CD-BSP 108-122) Rat Monoclonal Antibody [Clone ID: IDBSP5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	IDBSP5
Applications:	ELISA, WB
Recommended Dilution:	ELISA: 1/2000. Western Blot.
Reactivity:	Human
Host:	Rat
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Recombinant Human CD-BSP (108-122)
Specificity:	Recognizes Carbohydrate-deficient Bone Sialoprotein (CD-BSB/Tumor-BSP).
Formulation:	PBS, pH 7.4 State: Purified State: Liquid purified IgG fraction
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	integrin binding sialoprotein
Database Link:	Entrez Gene 3381 Human P21815



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Background:

The protein encoded by the Bone Sialoprotein gene is a major structural protein of the bone matrix. It is synthesized by skeletal-associated cell types, including hypertrophic chondrocytes, osteoblasts, osteocytes, and osteoclasts, and it constitutes approximately 12% of the noncollagenous proteins in human bone. The only extraskelatal 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.

Synonyms:

Bone sialoprotein II, BSP II, IBSP, BNSP

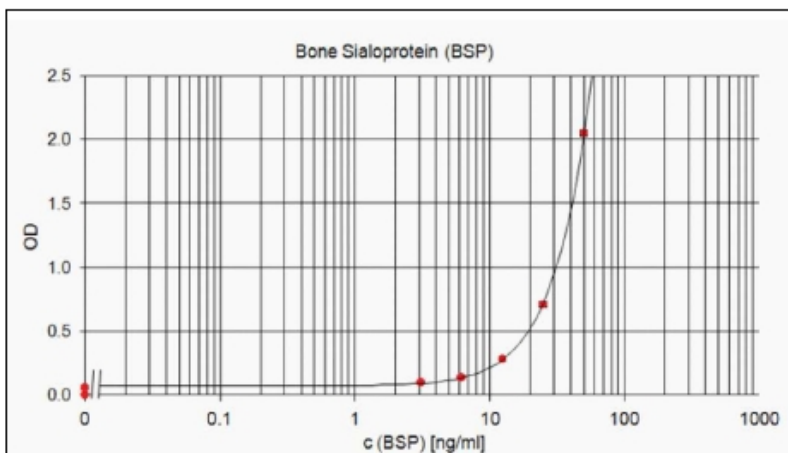
Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

ECM-receptor interaction, Focal adhesion

Product images:



ELISA Standard curve showing measurement of Human BSP in a Sandwich immunoassay using AM20240PU as a Capture antibody and AM02057PU as a Detection antibody. OD was determined at 450 nm. The shown standard curve is for demonstration purposes only and can be influenced by Buffer, incubation conditions or dilution of the conjugate.