

Product datasheet for **AM02057PU-S**

Bone Sialoprotein (IBSP) (native) Mouse Monoclonal Antibody [Clone ID: ID1.2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	ID1.2
Applications:	ELISA, IF, IHC, R, WB
Recommended Dilution:	ELISA (Cogan 2004). RIA . Western blot: 1/1,000 (Wuttke 2001, Cogan 2004, Carlinfante2003). Immunocytochemistry: 1/200 (Cogan 2004, Hilbig 2007, Graf 2012). Immunohistochemistry on Paraffin Sections: 1/400-1/2000. Immunohistochemistry on Cryo Sections, Resin-Embedded Sections: 1/100 (Ibrahim 2000, Cogan 2004, Scherberich 2007, Bauerle 2005, Mittag 2012, Carlinfante 2003, Amir 2007).
Reactivity:	Human, Porcine, Rabbit, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human Bone Sialoprotein (Bone extract).
Specificity:	This antibody recognizes Human Bone Sialoprotein, Recombinant Human, Recombinant Porcine and Recombinant Rat BSP Rabbit BSP. There was no cross reactivity obtained with Human, Porcine Osteonectin and Osteopontin.
Formulation:	50mM TRIS, pH 7.4 State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore in 10 µl aqua bidest to 1 mg/ml.
Purification:	Protein G Chromatography
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Gene Name: integrin binding sialoprotein

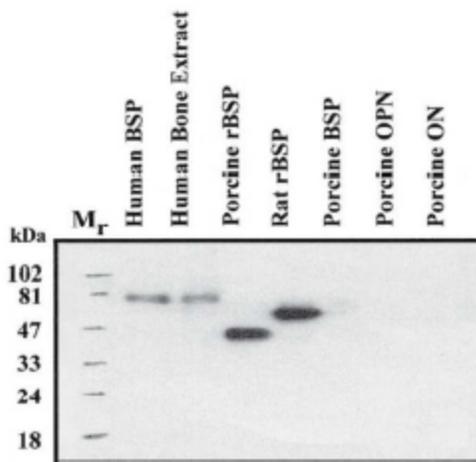
Database Link: [Entrez Gene 3381 Human P21815](#)

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 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.

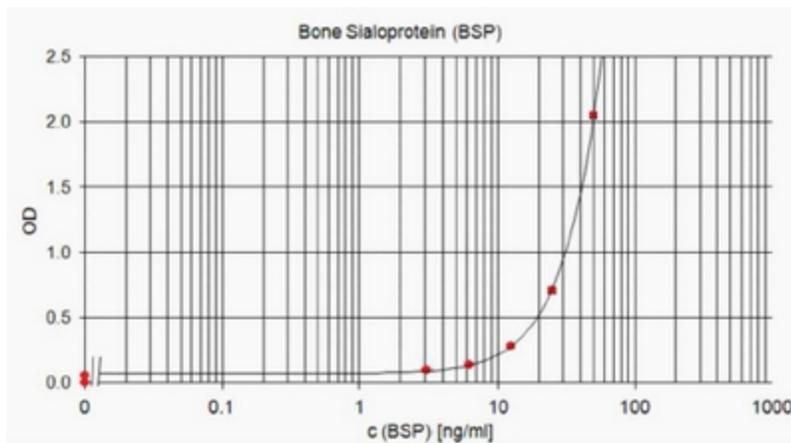
Synonyms: Bone sialoprotein II, BSP II, IBSP, BNSP

Note: LocusID 3381

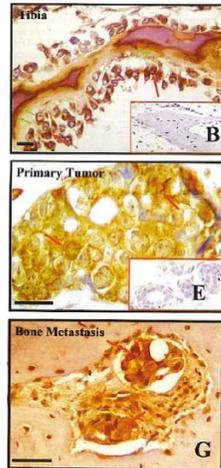
Product images:



Immunoblot analysis of [AM02057PU-N]/AM02057PU-S specificity. Native and recombinant Bone proteins were separated by SDS-PAGE and immunoblotted with this BSP antibody Cat.-No [AM02057PU-N]/AM02057PU-S at 1/4000 dilution. This antibody did not detect BSP purified from Porcine Bone, nor Porcine Osteopontin (OPN) or SPARC/Osteonectin (ON). Gogan G et al. (2004) Connect Tissue Res 45 (1):60-71



ELISA standard curve showing measurement of Human BSP in a Sandwich Immunoassay using Cat.-No [AM20240PU-N]/[AM20240PU-S] as a Capture antibody and Cat.-No [AM02057PU-N]/AM02057PU-S 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.



Immunohistochemistry image staining of BSP in Paraffin Section of Human Tissues. Sections were incubated with this BSP antibody Cat.-No [AM02057PU-N]/AM02057PU-S (1/2000) and detected using HRP conjugated secondary antibody and ABC Vectastain Elite Kit. DAB was used as the Chromogen. The sections were counterstained with Harris' Hematoxylin. Sections of B: Embryonic Tibia Sections of E: Primary breast Carcinoma Sections of G: Bone metastasis from the same patient were stained with this antibody. Inserted within B and E are Control Sections incubated with Mouse IgG. Scale bar = 20 μ m. Gogan G et al. (2004) Connect Tissue Res 45 (1):60-71