

Product datasheet for **AP02055PU-N**

Bone Sialoprotein (IBSP) (native) Chicken Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, FC, IF, IHC, R, WB
Recommended Dilution:	ELISA: 1 µg/ml. RIA: 20 ng/ml (Ref.1,4). Flow Cytometry (Ref.2). Western blot: 1/100 (Ref.1,3). Immunohistochemistry on Paraffin Sections: 4 µg/ml (Ref.4).
Reactivity:	Human
Host:	Chicken
Clonality:	Polyclonal
Immunogen:	Human Bone Sialoprotein (bone extract)
Specificity:	This antibody detects Bone Sialoprotein. There were no cross reactivities obtained with Human Osteonectin, Human Osteopontin and Human Alkaline Phosphatase.
Formulation:	PBS, pH 7.4 without preservatives. State: Purified State: Lyophilized purified IgY fraction.
Reconstitution Method:	Restore in aqua bidest to initial volume.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. 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:

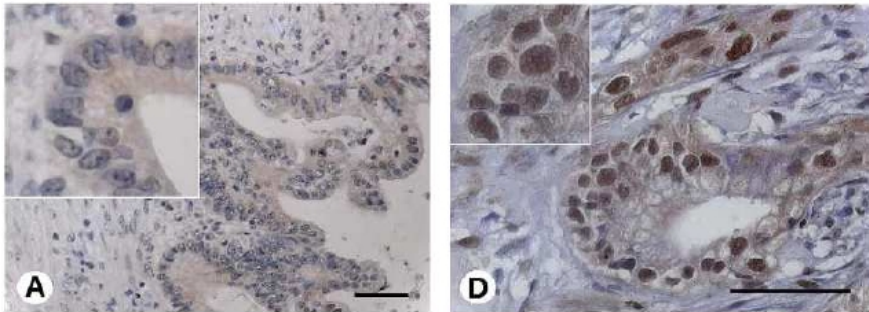
The protein encoded by the Bone Sialoprotein gene is a major structural protein of the bone matrix. It is synthesized by skeletal-associated cell types, including hypertrophic chondrocytes, osteoblasts, osteocytes, and osteoclasts, and it constitutes approximately 12% of the noncollagenous proteins in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

Immunohistochemistry of BSP staining in Paraffin Sections of pancreatic ductal adenocarcinoma. Sections were incubated with BSP antibody Cat.-No AP02055PU (4 ug/ml) and detected using HRP conjugated secondary antibody and DAB as chromogen. The sections were counterstained with Mayer's hematoxylin. Image A: AP02055PU stains pancreatic cancer cells. Image D: Lymph node metastases of pancreatic cancer cells. Scale bar = 50 µm. Kayed H et al. (2007) Cancer Lett 245 (1-2): 171-183.