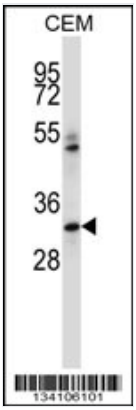
IBSP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IBSP, Polyclonal Antibody
Full Product Name	IBSP Antibody (N-term)
Product Gene Name	anti-IBSP antibody
Product Synonym Names	Bone sialoprotein 2; Bone sialoprotein II; BSP II; Cell-binding sialoprotein; Integrin-binding sialoprotein; IBSP; BNSP
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This IBSP antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 70-99 amino acids from the N-terminal region of human IBSP.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	IBSP peptide (MBS9220471) is used for blocking the activity of IBSP antibody (MBS9211940)
Molecular Weight	35148
Immunogen Sequence Positions	70-99
OMIM	147563
3D Structure	ModBase 3D Structure for P21815
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Product Categories/Family for anti-IBSP antibody	Signal Transduction
Applications Tested/Suitable for anti-IBSP antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-IBSP antibody	WB~~1:1000
Related Product Information for anti-IBSP antibody	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.

Product References and Citations for anti-IBSP antibody	Giroux, S., et al. Bone 47(5):975-981(2010) Koller, D.L., et al. J. Clin. Endocrinol. Metab. 95(4):1802-1809(2010) Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009) Gordon, J.A., et al. J. Cell. Biochem. 107(6):1118-1128(2009) Hwang, Q., et al. BMC Cancer 9, 121 (2009) :
Other Notes	Small volumes of anti-IBSP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IBSP purchase	MBS9211940 is an antibody targeting IBSP. Also known as IBSP Antibody (N-term). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-IBSP antibody
IBSP Antibody (N-term) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the IBSP antibody detected the IBSP protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IBSP. It may not necessarily be applicable to this product.

NCBI GI #	167466187
NCBI GeneID	3381
NCBI Accession #	NP_004958.2
UniProt Primary Accession #	P21815
UniProt Related Accession #	P21815
GenBank Nucleotide #	NM_004967.3
NCBI Official Full Name	bone sialoprotein 2
NCBI Official Synonym Full Names	integrin-binding sialoprotein
NCBI Official Symbol	IBSP
NCBI Official Synonym Symbols	BSP; BNSP; SP-II; BSP-II
UniProt Protein Name	Bone sialoprotein 2
UniProt Synonym Protein Names	Bone sialoprotein II; BSP II; Cell-binding sialoprotein; Integrin-binding sialoprotein
Protein Family	Bone sialoprotein
UniProt Gene Name	IBSP
UniProt Synonym Gene Names	BNSP; BSP II
UniProt Entry Name	SIAL_HUMAN
NCBI Protein Information	bone sialoprotein 2

NCBI Summary for IBSP	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]
UniProt Comments for IBSP	Sialoprotein-2: 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. Protein type: Motility/polarity/chemotaxis; Secreted; Cell adhesion; Secreted, signal peptide Chromosomal Location of Human Ortholog: 4q21.1 Cellular Component: extracellular space; membrane; extracellular region Biological Process: osteoblast differentiation; extracellular matrix organization and biogenesis; biomineral formation; cell adhesion
Research Articles on IBSP	**1.** oxidized low-density lipoprotein-induced expression dependent on Runx2 expression
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Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/ibsp/9211940