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Bone Sialoprotein Rabbit pAb

Catalog # AP96320

Product Information

Application	WB, E
Primary Accession	Q61711
Other Accession	Q61711
Reactivity	Mouse
Predicted	Rat, Pig, Human, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35734
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse Bone Sialoprotein
Epitope Specificity	241-317/317
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
Post-translational modifications	N-glycosylated; glycans consist of sialylated and core-fucosylated bi-, tri- and tetraantennary chains.Sulfated on either Tyr-320 or Tyr-321 (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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]

Additional Information

Gene ID	15891
Other Names	BNSP; BSP; BSP-II; SP-II; BSP II; BSPII; Bsp2; SIAL_HUMAN; IBSP; Bone sialoprotein 2; Bone sialoprotein II (BSP II); Cell-binding sialoprotein; SIAL_MOUSE; SIAL_RAT; integrin binding sialoprotein; bone sialoprotein; bone sialoprotein II
Dilution	WB=1:500-2000,ELISA=1:5000-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Ibsp
Function	Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. Promotes adhesion and migration of various cells via the alpha-V/beta-3 integrin receptor (ITGAV:ITGB3).
Cellular Location	Secreted {ECO:0000250|UniProtKB:P21815}.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.