

Anti-Bone SialoProtein Antibody

Catalog # ABO11193

Product Information

Application	WB, IHC-P
Primary Accession	Q61711
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Bone sialoprotein 2(IBSP) detection. Tested with WB, IHC-P in Mouse;Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	15891
Other Names	Bone sialoprotein 2, Bone sialoprotein II, BSP II, Cell-binding sialoprotein, Integrin-binding sialoprotein, Ibsp
Calculated MW	35734
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Mouse, Rat, By Heat Western blot, 0.1-0.5 µg/ml, Rat, Mouse
Subcellular Localization	Secreted.
Source	Eukaryota
Protein Name	Bone sialoprotein 2
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg NaN ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of mouse Bone Sialoprotein(305-324aa SYYKGHGYEGYEGQNYHHQ), different from the related rat sequence by one amino acid.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time.Avoid repeated

freezing and thawing.

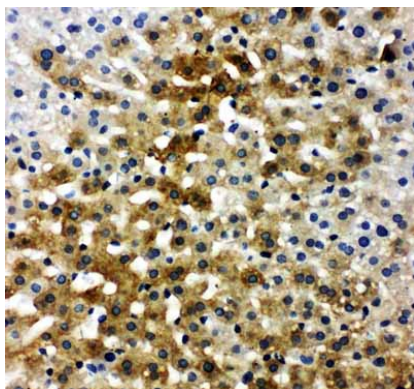
Protein Information

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}.

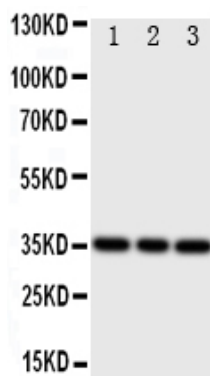
Background

IBSP(integrin-binding sialoprotein) is also known as BSP. The protein encoded by this gene is a major structural protein of the bone matrix. Bone sialoprotein is an acidic glycoprotein of approximately 70 kD that undergoes extensive posttranslational modifications. 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. The BSP gene is mapped to 4q22.1.

Images



Anti-Bone Sialoprotein antibody, ABO11193, IHC(P)IHC(P):
Rat Liver Tissue



Anti-Bone Sialoprotein antibody, ABO11193, Western blotting
Lane 1: Rat Liver Tissue Lysate
Lane 2: Rat Brain Tissue Lysate
Lane 3: Rat Kidney Tissue Lysate

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