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Anti-Bone SialoProtein Antibody
Catalog # ABO11193

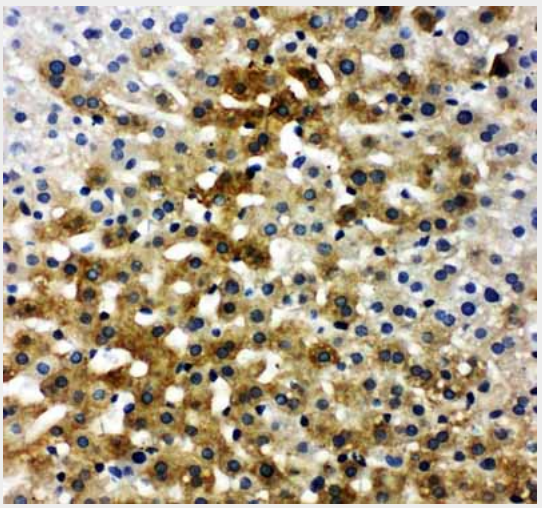
Specification

Anti-Bone SialoProtein Antibody - Product Information

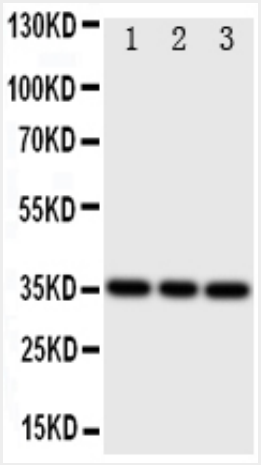
Application	IHC, WB
Primary Accession	Q61711
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

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.



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



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

Anti-Bone SialoProtein Antibody - 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 MW KDa

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.

Protein Name
Bone sialoprotein 2

Contents
Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg Thimerosal, 0.05mg NaN3.

Anti-Bone SialoProtein Antibody - 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

Immunogen
A synthetic peptide corresponding to a sequence at the C-terminus of mouse Bone Sialoprotein(305-324aa SYYKGHGYEGYEGQNYYYHQ), 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 r˚Constitution, 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.**

Anti-Bone SialoProtein Antibody - 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 Arg-Gly-Asp-dependent cell attachment (By similarity).

Cellular Location
Secreted.

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.

Anti-Bone SialoProtein Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture