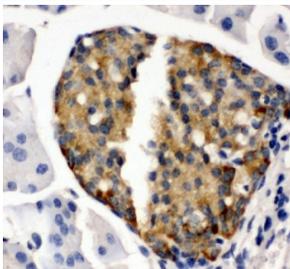


Ibsp Antibody / Bone sialoprotein 2 (R30987)

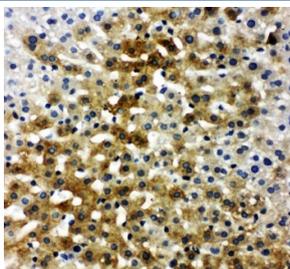
Catalog No.	Formulation	Size
R30987	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

[Bulk quote request](#)

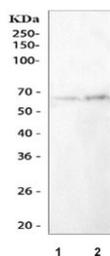
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Antigen affinity
Buffer	Lyophilized from 1X PBS with 2.5% BSA and 0.025% sodium azide/thimerosal
UniProt	Q61711
Localization	Secreted
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml
Limitations	This Ibsp antibody is available for research use only.



IHC staining of FFPE mouse pancreas tissue with Ibsp antibody. HIER: boil tissue sections in pH6 citrate buffer for 20 min and allow to cool before testing.



IHC staining of FFPE rat liver tissue with Ibsp antibody. HIER: boil tissue sections in pH6 citrate buffer for 20 min and allow to cool before testing.



Western blot testing of 1) rat cartilage and 2) mouse cartilage tissue lysate with lbsp antibody. Expected molecular weight: 35~70 kDa depending on glycosylation level.

Description

Integrin-binding sialoprotein, also known as Bone sialoprotein and BSP, is a major structural protein of the bone matrix. Bone sialoprotein is a predicted 35KD acidic glycoprotein that undergoes extensive posttranslational modifications and is visualized by western blot at up to 70KD. 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.

Application Notes

The stated application concentrations are suggested starting amounts. Titration of the lbsp antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

An amino acid sequence from the C-terminus of mouse Bone sialoprotein (SYKKGHGYEGYEGQNYHHQ) was used as the immunogen for this lbsp antibody.

Storage

After reconstitution, the lbsp antibody can be stored for up to one month at 4°C. For long-term, aliquot and store at -20°C. Avoid repeated freezing and thawing.