

Anti-IBSP Antibody Picoband® Cy3 Conjugated

Catalog Number: A03183-Cy3

About IBSP

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.

Overview

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| Product Name | Anti-IBSP Antibody Picoband® Cy3 Conjugated |
| Reactive Species | Human, Mouse, Rat |
| Application | Recommended applications are based on the parent unconjugated antibody (WB). Customers may select suitable applications according to their experimental needs. |
| Clonality | Polyclonal |
| Formulation | Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na ₂ HPO ₄ , 0.02% Na ₃ N. |
| Storage Instructions | At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light. |
| Host | Rabbit |
| Uniprot ID | P21815 |

Technical Details

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| Immunogen | A synthetic peptide corresponding to a sequence at the N-terminus of human IBSP, which shares 88.9% and 87% amino acid (aa) sequence identity with mouse and rat IBSP, respectively. |
| Cross Reactivity | No cross-reactivity with other proteins. |
| Isotype | Rabbit IgG |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Immunogen affinity purified. |
| Conjugate | Cy3 Excitation Wavelength: 554 nm Emission Wavelength: 568 nm |

Suggested Dilutions

Optimal dilutions should be determined by end users.

3 Publications Citing This Product

1. PubMed ID: 30988819, Liu B,Xu M,Guo Z,Liu J,Chu X,Jiang H.Interleukin-8 promotes prostate cancer bone metastasis through upregulation of bone sialoprotein.Oncol Lett.2019 May;17(5):4607-4613.doi:10.3892/ol.2019.10138.Epub 2019 Mar 12.PMID:30988819;PMCID:PMC6447917.

2. PubMed ID: 24265840, The Osteogenic Potential of Mesoporous Bioglasses/Silk and Non-Mesoporous Bioglasses/Silk Scaffolds in Ovariectomized Rats: In vitro and In vivo Evaluation

3. PubMed ID: 27347083, Effect of kidney-reinforcing and marrow-beneficial Chinese medicine on bone metabolism-related factors following spinal cord injury in rats

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