

Datasheet for ABIN3044104
anti-IBSP antibody (C-Term)[Go to Product page](#)

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Overview

Quantity:	100 µg
Target:	IBSP
Binding Specificity:	AA 305-324, C-Term
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IBSP antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Bone sialoprotein 2 (IBSP) detection. Tested with WB, IHC-P in Mouse, Rat.
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.
Sequence:	SYYKGHGYEG YEGQNYYYHQ
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Bone sialoprotein 2 (IBSP) detection. Tested with WB, IHC-P in Mouse, Rat. Gene Name: integrin-binding sialoprotein

Product Details

Protein Name: Bone sialoprotein 2

Purification: Immunogen affinity purified.

Target Details

Target: IBSP

Alternative Name: IBSP ([IBSP Products](#))

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.

Synonyms: BNSP antibody|Bone sialoprotein 2 antibody|Bone sialoprotein II antibody|BSP antibody|BSP II antibody|BSP II antibody|Cell binding sialoprotein antibody|Cell-binding sialoprotein antibody|IBSP antibody|Integrin binding sialoprotein antibody|Integrin-binding sialoprotein antibody|SIAL_HUMAN antibody|SPII antibody

UniProt: [Q61711](#)

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Rat, Predicted Species: Mouse, The detection limit for IBSP is approximately 2.5 ng/lane under reducing conditions.
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.
Optimal dilutions should be determined by end users.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C/-20 °C

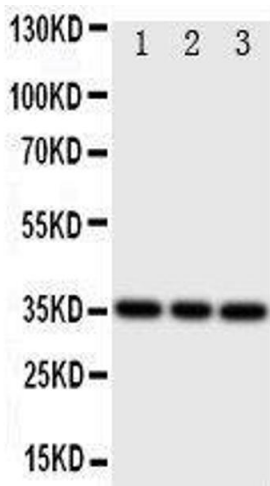
Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Expiry Date: 12 months

Publications

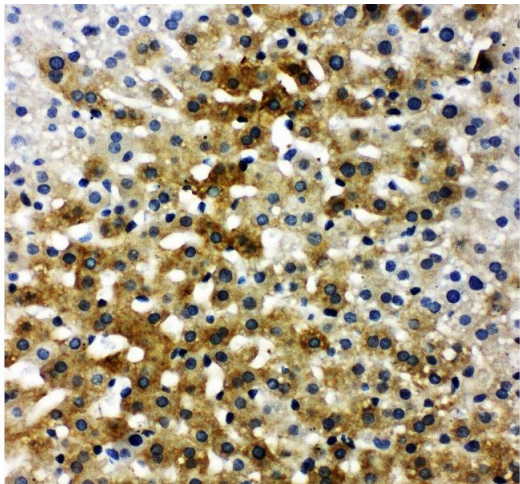
Product cited in: Lang, Schulte, Goddard, Hedrick, Schulte, Wei, Schmiedt: "Transplantation of mouse embryonic stem cells into the cochlea of an auditory-neuropathy animal model: effects of timing after injury." in: **Journal of the Association for Research in Otolaryngology : JARO**, Vol. 9, Issue 2, pp. 225-40, (2008) ([PubMed](#)).

Lang, Ebihara, Schmiedt, Minamiguchi, Zhou, Smythe, Liu, Ogawa, Schulte: "Contribution of bone marrow hematopoietic stem cells to adult mouse inner ear: mesenchymal cells and fibrocytes." in: **The Journal of comparative neurology**, Vol. 496, Issue 2, pp. 187-201, (2006) ([PubMed](#)).



Western Blotting

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



Immunohistochemistry

Image 2. Anti-Bone Sialoprotein antibody, IHC(P) IHC(P): Rat Liver Tissue