Antibodies

Data Sheet

HUMAN BONE SIALOPROTEIN (BSP)

ANTIBODY, MONOCLONAL

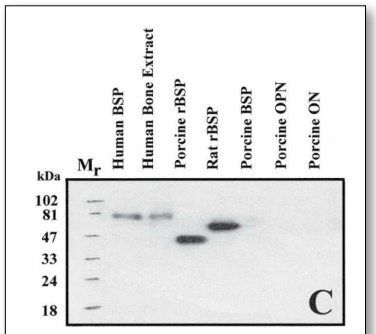

Figure 1: Immuno Blot analysis of A 4232 specificity. Native and recombinant bone proteins were separated by SDS-PAGE and immunoblotted with A 4232 (1:4000). **C.** A 4232 recognizes human BSP and recombinant porcine and rat BSP. A 4232 did not detect BSP purified from porcine bone, nor porcine Osteopontin (OPN) or SPARC/Osteonectin (ON)

Cogan G et al. (2004) Connect Tissue Res 45(1):60-71

Catalog no.: A 4232.1 / A 4232.2

Immunogen: Human Bone Sialoprotein (bone extract)

Synonyms: Bone sialoprotein 2, BSP2, Cell-binding sialoprotein, Integrin-binding sialoprotein

Swiss-Prot No: P21815

Gene Information: Gene name: IBSP

GeneID: 3381

Host: Mouse Balb/c

Clone no.: ID1.2

Isotype: IgG_1

Matrix: Cell culture supernatant, Protein G purified, 50 mM TRIS pH 7.4

Specificity: Epitope "DEYSY" (aa 279-283) of human Bone Sialoprotein; recombinant human, recombinant porcine and recombinant rat BSP, rabbit BSP

There was no cross reactivity obtained with human and porcine Osteonectin and Osteopontin

Contents: 10 µg / 100 µg (lyophilized)

Resuspend in 10 µl / 100 µl aqua bidest.

Known applications: ELISA[4], RIA, Western Blot (1:1000)[2, 3, 4], immunohistochemistry (paraffin sections, 1:400-1:2000; cryosections; resin-embedded sections, 1:100)[1, 3, 4, 6, 7, 9, 11], immunocytochemistry (1:100-1:200)[4, 5, 8, 10, 12]

This antibody has not been tested for use in all applications. This does not necessarily exclude its use in non-tested procedures. The stated dilutions are recommendations only. End users should determine optimal dilutions in their system using appropriate negative/positive controls.

Store at: 2-8 °C (lyophilized); - 20 °C (dissolved)

Repeated thawing and freezing must be avoided

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References:

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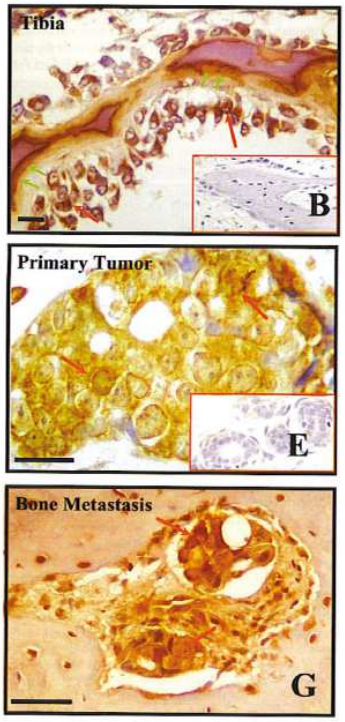

Figure 2: Immunohistochemistry image of BSP staining in paraffin sections of human tissues. Sections were incubated with A 4232 (1:2000) and detected using HRP-conjugated secondary antibody and ABC Vectastain Elite Kit (Vector Laboratories). DAB was used as the chromogen. The sections were counterstained with Harris' hematoxylin. Sections of **B.** embryonic tibia; **E.** primary breast carcinoma; and **G.** bone metastasis from the same patient were stained with A 4232. Inserted within B and E are control sections incubated with mouse IgG. Scale bar = 20 µm.

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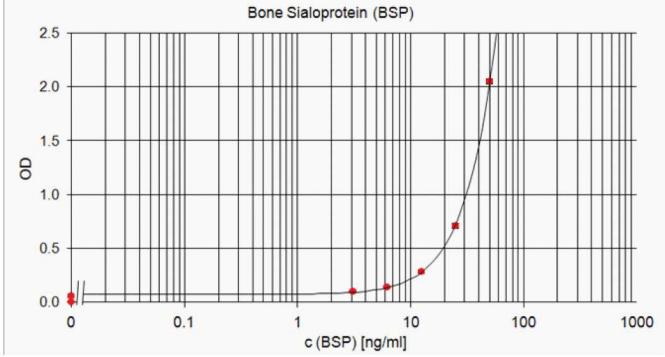

Figure 3: ELISA standard curve showing measurement of human BSP in a sandwich immunoassay using A 4217 as capture antibody and A 4232 as detection antibody. OD was determined at 450 nm. The shown standard curve is for demonstration purposes only and can be influenced by buffer, incubation conditions or dilution of the conjugate.

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For research use only

Publishing research using A 4232? Please let us know so that we can cite your publication as a reference.

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