

Data Sheet

HUMAN OSTEONECTIN

ANTIBODY, POLYCLONAL

Catalog no.:	A 4225.1 / A 4225.2
Immunogen:	Recombinant human Osteonectin
Synonyms:	ON, Secreted protein acidic and rich in cysteine (SPARC), Basementmembrane protein 40 (BM40)
Swiss-Prot No:	P09486
Gene Information:	Gene Name: SPARC, ON Gene ID: 6678
Host:	Rabbit
Matrix:	Serum
Specificity:	Human Osteonectin There was no cross reactivity obtained with human Osteopontin, and human Bone Sialoprotein
Contents:	20 µl / 100 µl (lyophilized) Resuspend in 20 µl / 100 µl aqua bidest.
Known applications:	ELISA (1:5,000)[1], Western Blot (1:2000)[2, 3], immunohistochemistry (paraffin sections, 1:1000) 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

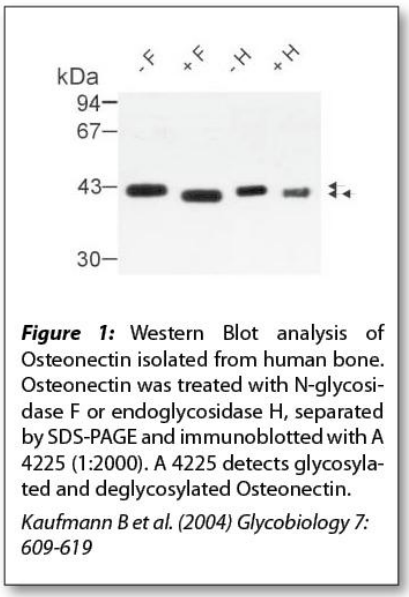

Figure 1: Western Blot analysis of Osteonectin isolated from human bone. Osteonectin was treated with N-glycosidase F or endoglycosidase H, separated by SDS-PAGE and immunoblotted with A 4225 (1:2000). A 4225 detects glycosylated and deglycosylated Osteonectin.

Kaufmann B et al. (2004) Glycobiology 7: 609-619

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References:

1. Withold W, Friedrich W, Degenhardt S (1997). Serum bone alkaline phosphatase is superior to plasma levels of bone matrix proteins for assessment of bone metabolism in patients receiving renal transplants. *Clinica Chimica Acta* **261**(2): 105-115.

2. Kaufmann B, Muller S, Hanisch FG, Hartmann U, Paulsson M, Maurer P, Zaucke F (2004). Structural variability of BM-40/SPARC/osteonectin glycosylation: implications for collagen affinity. *Glycobiology* **14**(7): 609-619.

3. Adwan H, Bauerle TJ, Berger MR (2004). Downregulation of osteopontin and bone sialoprotein II is related to reduced colony formation and metastasis formation of MDA-MB-231 human breast cancer cells. *Cancer Gene Ther* **11**(2): 109-120.

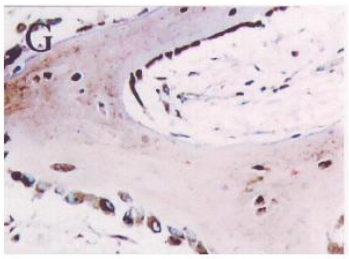

Figure 2: Immunohistochemistry image of Osteonectin staining in paraffin section of fetal calvaria. The bone tissue was decalcified in 10% formic acid. The section was incubated with A 4225 (1:1000) overnight and detected using ABC vectastain kit (Vector Laboratories). DAB was used as the chromogen. The sections were counterstained with Mayer's hematoxylin.

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For research use only

Publishing research using A 4225? Please let us know so that we can cite your publication as a reference.

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