

## Product datasheet for **AP02133SU-S**

### SPARC Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	<b>ELISA:</b> 1/5,000 (See also Ref.1). <b>Western Blot:</b> 1/2,000 (See also Ref.2,3). <b>Immunohistochemistry on Paraffin Sections:</b> 1/1,000.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Recombinant Human Osteonectin
Specificity:	This antibody detects Osteonectin. There were no cross reactivities obtained with Human Osteopontin, and Human Bone Sialoprotein.
Formulation:	State: Serum State: Lyophilized Serum
Reconstitution Method:	Restore in aqua bidest to initial volume.
Conjugation:	Unconjugated
Storage:	Store lyophilized at 2-8°C for 6 months or at -20°C long term. After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	secreted protein acidic and cysteine rich
Database Link:	<a href="#">Entrez Gene 6678 Human P09486</a>



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**Background:**

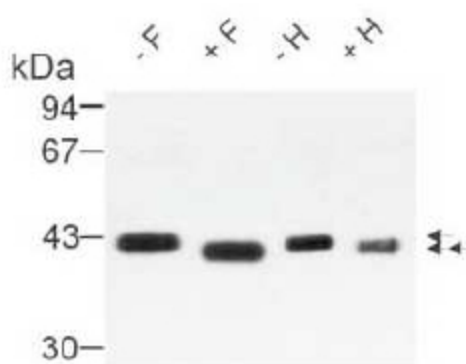
SPARC (secreted protein acidic and rich in cysteine)/Osteonectin is a matricellular glycoprotein that modulates cellular interactions with the ECM and is expressed in tissues undergoing remodeling. It functions as a de-adhesive protein, as a modulator of growth factor activity, and as a cell-cycle inhibitor. It induces changes in endothelial cell shape via F-actin, coincident with the appearance of intercellular gaps, that provide a paracellular pathway for extravasation of macromolecules. Tumor growth is enhanced in mice lacking SPARC due to changes in the ECM that create a more permissive environment for tumor progression.

**Synonyms:**

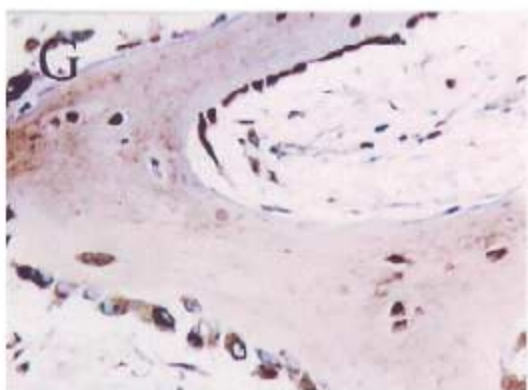
ON, Basement-membrane protein 40, BM-40

**Note:**

GeneID 6678

**Product images:**

Western Blot analysis of Osteonectin isolated from Human bone. Osteonectin was treated with N-glycosidase F or endoglycosidase H, separated by SDS-PAGE and immunobotted with AP02133SU at 1/2000 dilution. This antibody detects glycosylated Osteonectin. Kaufmann B et al. (2004) *Glycobiology* 7: 609-619.



AP02133SU Osteonectin antibody staining of Paraffin Section of fetal calvaria. The bone tissue was decalcified in 10% formic acid. The section was incubated with AP02133SU overnight and detected using ABC vectastain kit. DAB was used as the chromogen. The sections were counterstained with Mayer's hematoxylin.