

Product datasheet for **BM2202**

SPARC Mouse Monoclonal Antibody [Clone ID: N50]

Product data:

Product Type:	Primary Antibodies
Clone Name:	N50
Applications:	ELISA, FC, IF, IHC, R, WB
Recommended Dilution:	RIA. ELISA. Immunofluorescence. Western blot. Immunohistochemistry on Frozen Sections. 10µg/ml. Immunohistochemistry on Paraffin Sections: ABC staining method (See " Protocols " for more details).
Reactivity:	Bovine, Human, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Crude bone extract containing native Osteonectin.
Specificity:	Recognizes Human and Bovine bone Osteonectin, Human platelet Osteonectin. SPARC produced by various cells grown in culture. Cross reacts with Rat Osteonectin.
Formulation:	50% Glycerol/H ₂ O (vol/vol) State: Azide Free State: Liquid purified Ig fraction (>95% pure by SDS-PAGE) Preservative: None
Concentration:	lot specific
Purification:	Ammonium Sulfate Precipitation, Ion Exchange Chromatography and Gel Filtration.
Conjugation:	Unconjugated
Storage:	Upon receipt, store undiluted (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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Gene Name:	secreted protein acidic and cysteine rich
Database Link:	Entrez Gene 6678 Human P09486
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:	<p>Protocol: For Immunohistochemistry we recommend starting with an antibody concentration of 10 µg/ml and then adjusting this concentration to optimize your specific applications. Because this antibody does not react well in the absence of calcium, we recommend that the dilution be made in a buffer containing 2 mM CaCl₂. Because Calcium and Phosphate are incompatible, we also recommend a buffer of 20 mM HEPES, 0.15 M NaCl, pH 7.4.</p> <p><i>Recommended Incubation times:</i> 1 hour at 37°C, overnight (16 hours) at 2-8°C or 4-6 hours at room temperature.</p> <p>For detection, we recommend a FITC labelled secondary antibody such as a goat anti-Mouse IgG.</p>