bs-1133R **[Primary Antibody]**

SPARC | Osteonectin (ON)/BM-40 Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 6678 **SWISS:** P09486

Target: SPARC | Osteonectin (ON)/BM-40

Immunogen: KLH conjugated synthetic peptide derived from human SPARC: 101-200/303.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: This gene encodes a cysteine-rich acidic matrix-associated protein. The encoded protein is required for the collagen in bone to become calcified but is also involved in extracellular matrix synthesis and promotion of changes to cell shape. The gene product has been associated with tumor suppression but has also been correlated with metastasis based on changes to cell shape which can promote tumor cell invasion. [provided by RefSeq, Dec 2011].

Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2ug/Test)

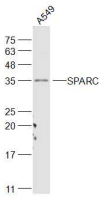
Reactivity: Human, Mouse, Rat (predicted: Rabbit, Pig, Cow, Chicken, Dog, Horse)

Predicted MW.: 33 kDa

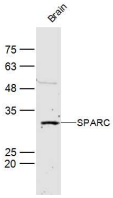
Observed MW.: 33-35 kDa

Subcellular Location: Secreted ,Extracellular matrix ,Nucleus

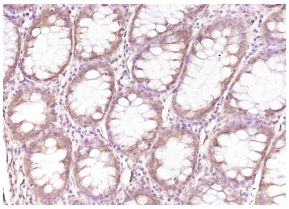
VALIDATION IMAGES



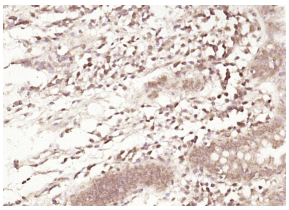
Sample: A549(Human) Cell Lysate at 30 ug Primary: Anti-SPARC (bs-1133R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 33 kD Observed band size: 35 kD



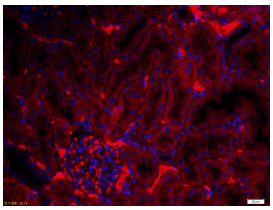
Sample: Brain (Mouse) Lysate at 40 ug Primary: Anti-SPARC (bs-1133R) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 33 kD Observed band size: 33 kD



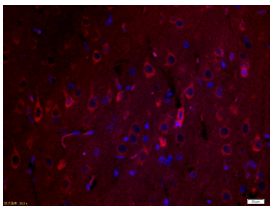
Paraformaldehyde-fixed, paraffin embedded (human colon carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPARC) Polyclonal Antibody, Unconjugated (bs-1133R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human rectal carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPARC) Polyclonal



Tissue/cell: mouse kidney tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-SPARC Polyclonal Antibody, Unconjugated(bs-1133R)



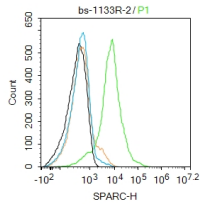
Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-SPARC Polyclonal Antibody, Unconjugated(bs-1133R)

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Antibody, Unconjugated (bs-1133R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.

1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(bs-0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C. DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei



Blank control:U87MG. Primary Antibody (green line): Rabbit Anti-SPARC antibody (bs-1133R) Dilution: 2ug/Test; Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=7.097]** Liting Cheng. et al. Bioresponsive micro-to-nano albumin-based systems for targeted drug delivery against complex fungal infections. ACTA PHARM SIN B. 2021 Oct;11:3220 IF ;Mouse. 10.1016/j.apsb.2021.04.020
- **[IF=5.8]** Hsin-Ju Chiang. et al. Comparable Protective Effects of Low- and High-Dose MK-7 on Bone Structure and Remodeling in a Rat Model of Osteoporosis Induced by Estrogen Deficiency and Glucocorticoid Exposure. NUTRIENTS. 2026 May;18(10):1605 IHC ;Rat. 42197064
- **[IF=4.547]** Zheng, Qingbo. et al. Construction of transcriptome atlas of white yak hair follicle during anagen and catagen using single-cell RNA sequencing. BMC GENOMICS. 2022 Dec;23(1):1-14 IHC ;Yak. 36482306
- **[IF=4.2]** Camila Machado Baldavira. et al. Matrisome analysis of NSCLC unveils clinically-important cancer-associated extracellular matrix changes. BBA-MOL BASIS DIS. 2025 Apr;1871:167709 IHC ;Human. 39938232
- **[IF=3.73]** Jie Chen. et al. SPARC Is a Key Regulator of Proliferation, Apoptosis and Invasion in Human Ovarian Cancer. PLOS ONE. 2012 Aug;7(8):e42413 IHC ;="Human". 22879971

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