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# Rabbit Anti-SPARC antibody

SL1133R

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| **Product Name:** | SPARC |
| **Chinese Name:** | 富含半胱氨酸的酸性分泌蛋白抗体 |
| **Alias:** | AA517111; Basement membrane protein 40; BM 40; BM40; Cysteine rich protein; hm:zeh0062; MGC128090; ON; Osteonectin; Secreted acidic cystein rich glycoprotein; Secreted protein acidic and rich in cysteine; Secreted protein acidic cysteine rich (osteonectin); Secreted protein acidic cysteine rich; SPRC; SPRC_HUMAN. |
| 文献引用 PubMed : | **Specific References(3)**\|SL1133R has been referenced in 3 publications.<br>**[IF=3.73]**Chen, Jie, et al. "SPARC is a key regulator of proliferation, apoptosis and invasion in human ovarian cancer." PLoS One 7.8 (2012): e42413.**IHC-P;Human**.<br>PubMed:22879971<br>**[IF=1.50]**Kurtul, Neslihan, et al. "Prognostic Value of SPARC Expression in Unresectable NSCLC Treated with Concurrent Chemoradiotherapy." Asian Pacific Journal of Cancer Prevention 15.20 (2014): 8911-8916.**IHC-P;Human**.<br>PubMed:25374228<br>**[IF=1.89]**Zong, Shaohui, et al. "Effects of Polygonatum sibiricum polysaccharide on the osteogenic differentiation of bone mesenchymal stem cells in mice." International Journal of Clinical and Experimental Pathology8.6 (2015): 6169-6180.**WB;Mouse**.<br>PubMed:26261494 |
| **Organism Species:** | Rabbit |
| **Clonality:** | Polyclonal |
| **React Species:** | Human,Mouse,Rat,Dog,Pig,Cow,Horse,Rabbit, |
| **Applications:** | WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500（Paraffin sections need antigen repair）<br>not yet tested in other applications. |

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| | optimal dilutions/concentrations should be determined by the end user. |
| **Molecular weight:** | 33kDa |
| **Cellular localization:** | The cell membraneExtracellular matrixSecretory protein |
| **Form:** | Lyophilized or Liquid |
| **Concentration:** | 1mg/ml |
| **immunogen:** | KLH conjugated synthetic peptide derived from human SPARC:101-200/303 |
| **Lsotype:** | IgG |
| **Purification:** | affinity purified by Protein A |
| **Storage Buffer:** | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| **Storage:** | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| **PubMed:** | PubMed |
| **Product Detail:** | 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].<br><br>**Function:**<br>Appears to regulate cell growth through interactions with the extracellular matrix and cytokines. Binds calcium and copper, several types of collagen, albumin, thrombospondin, PDGF and cell membranes. There are two calcium binding sites; an acidic domain that binds 5 to 8 Ca(2+) with a low affinity and an EF-hand loop that binds a Ca(2+) ion with a high affinity.<br><br>**Subcellular Location:**<br>Secreted, extracellular space, extracellular matrix, basement membrane. Note=In or around the basement membrane.<br><br>**Similarity:**<br>Belongs to the SPARC family.<br>Contains 1 EF-hand domain.<br>Contains 1 follistatin-like domain.<br>Contains 1 Kazal-like domain.<br><br>**SWISS:**<br>P09486<br><br>**Gene ID:**<br>6678<br><br>**Database links:** |

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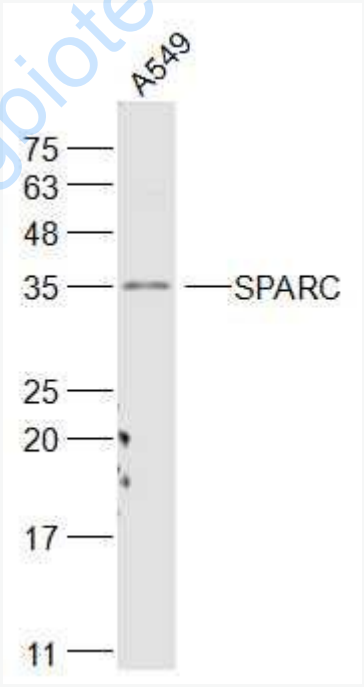
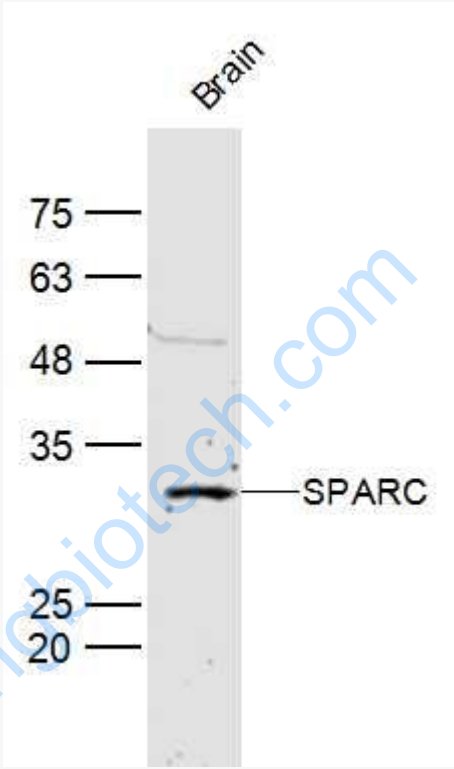
| | Entrez Gene: 6678Human<br><br>Omim: 182120Human<br><br>SwissProt: P09486Human<br><br>Unigene: 111779Human<br><br>Unigene: 708558Human<br><br>**Important Note:**<br>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.<br><br>SPARC是从多方面调节细胞功能的Extracellular matrix蛋白，SPARC蛋白在人组织中广泛分布与组织重建和Tumour有关。SPARC在多种Tumour中呈高表达. |
| **Picture:** |  <br>Sample:<br><br>A549(Human) Cell Lysate at 30 ug<br><br>Primary: Anti-SPARC (SL1133R) at 1/1000 dilution<br><br>Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution |

Predicted band size: 33 kD

Observed band size: 35 kD




Sample:

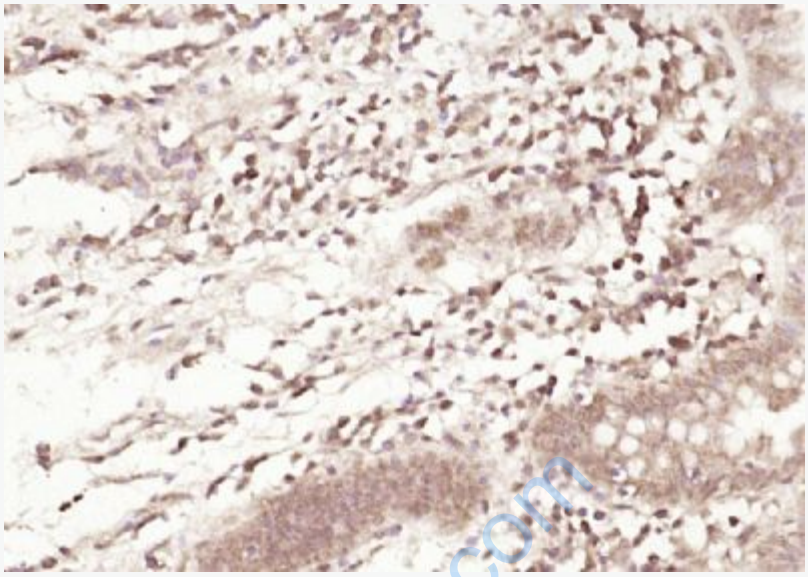
Brain (Mouse) Lysate at 40 ug

Primary: Anti-SPARC (SL1133R) at 1/300 dilution

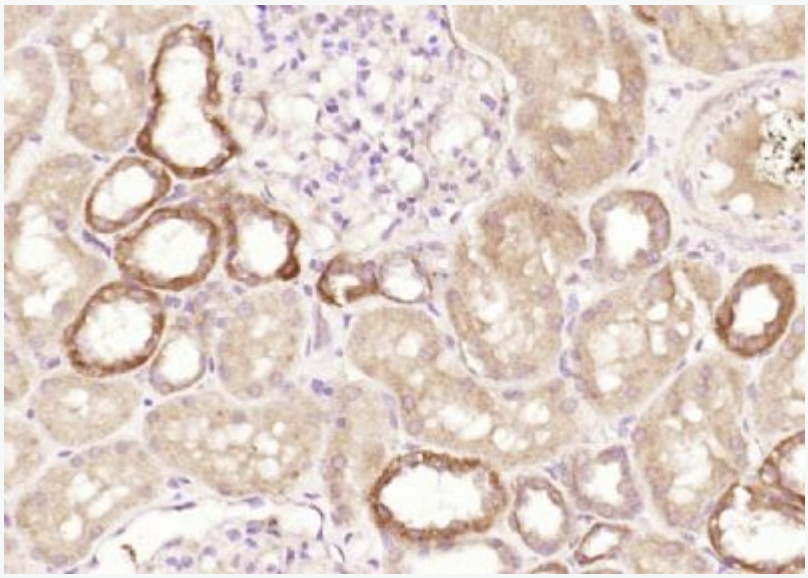
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 33 kD

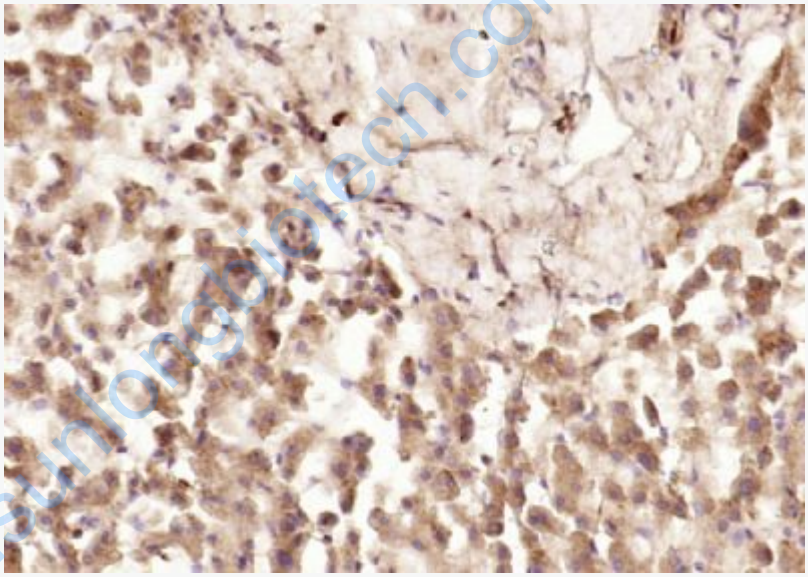
Observed band size: 33 kD



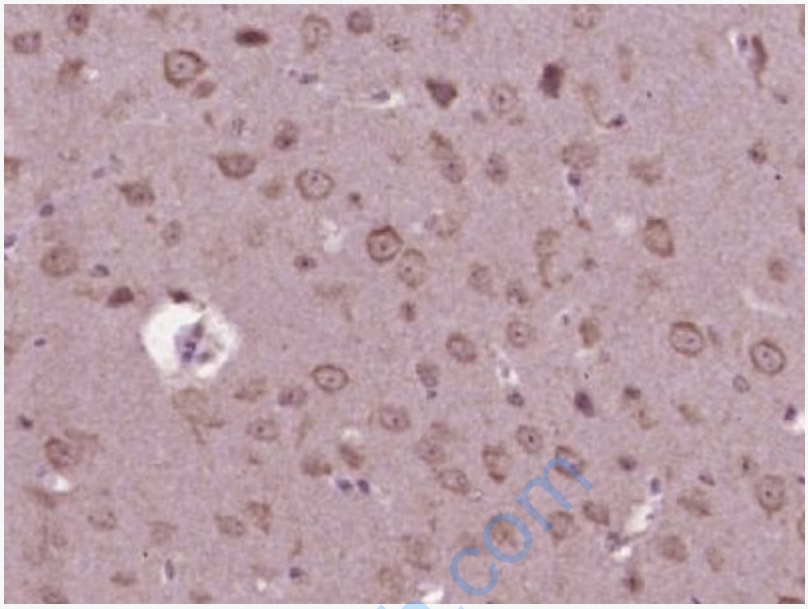
Paraformaldehyde-fixed, paraffin embedded (human rectal carcinoma); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPARC) Polyclonal Antibody, Unconjugated (SL1133R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



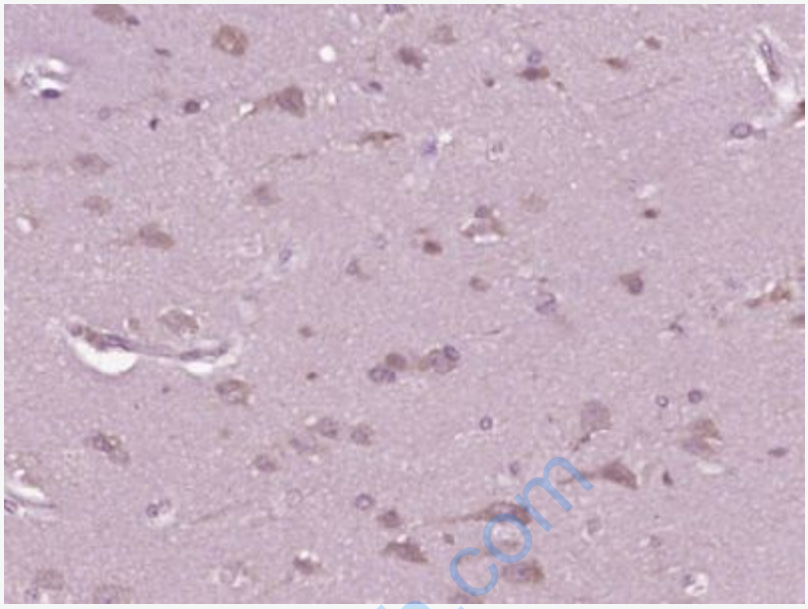
Paraformaldehyde-fixed, paraffin embedded (Human kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPARC) Polyclonal Antibody, Unconjugated (SL1133R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



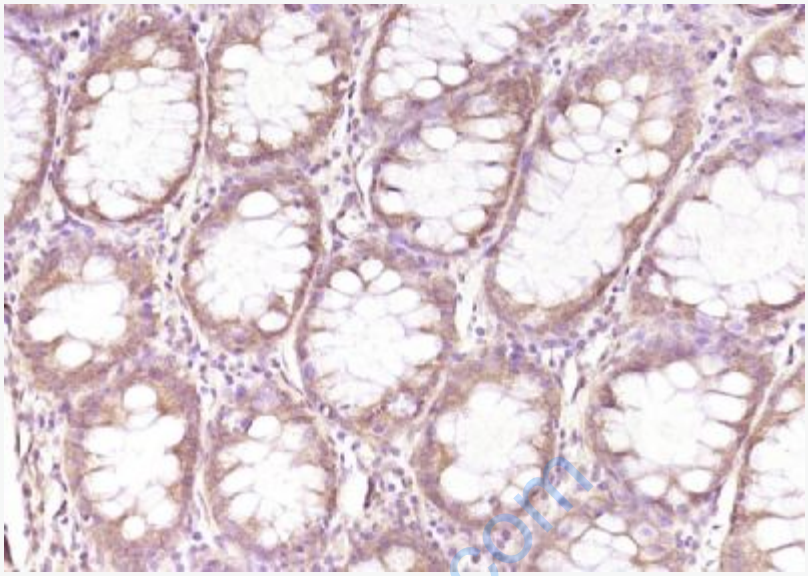
Paraformaldehyde-fixed, paraffin embedded (human liver); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPARC) Polyclonal Antibody, Unconjugated (SL1133R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



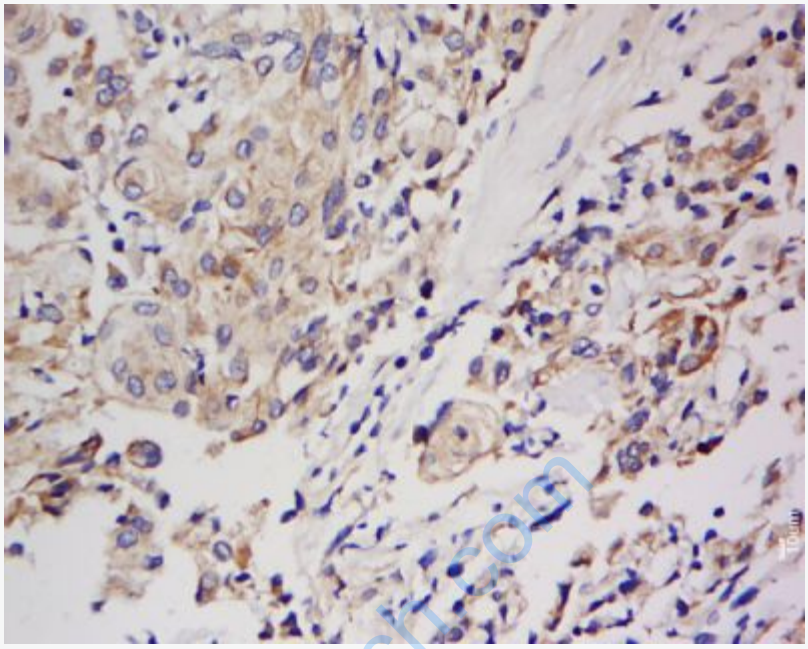
Paraformaldehyde-fixed, paraffin embedded (mouse brain tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPARC) Polyclonal Antibody, Unconjugated (SL1133R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Paraformaldehyde-fixed, paraffin embedded (human brain glioma); 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 (SL1133R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



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 (SL1133R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: Human Meningioma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-SPARC Polyclonal Antibody, Unconjugated(SL1133R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

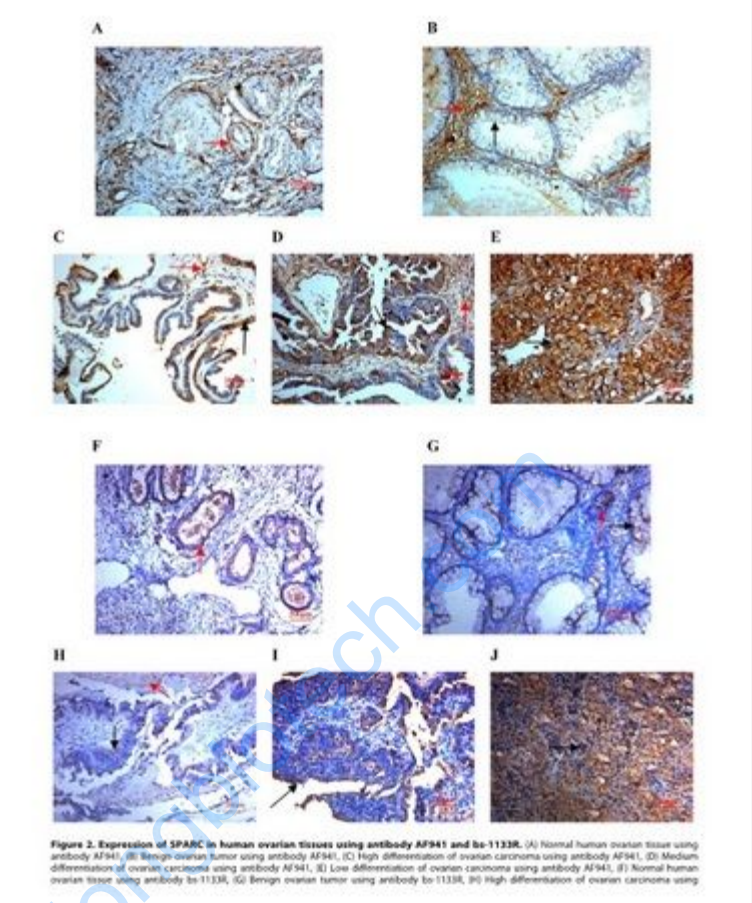
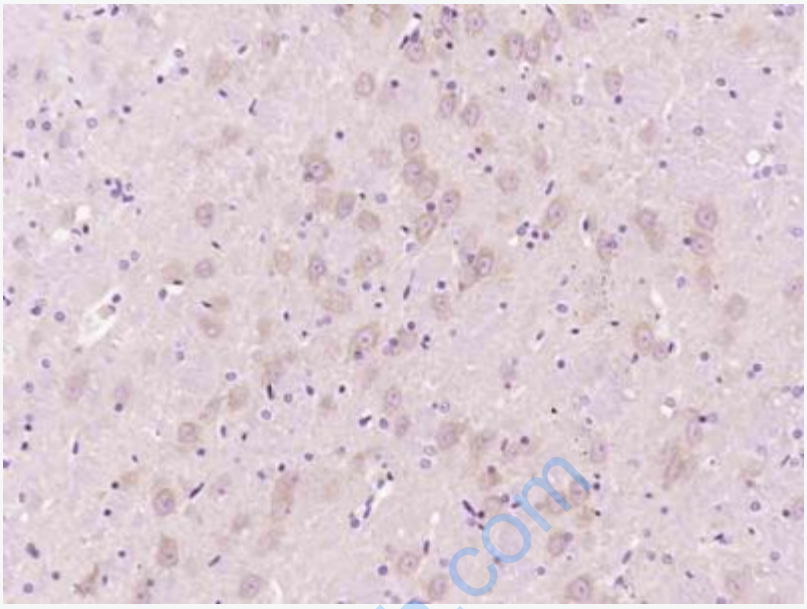
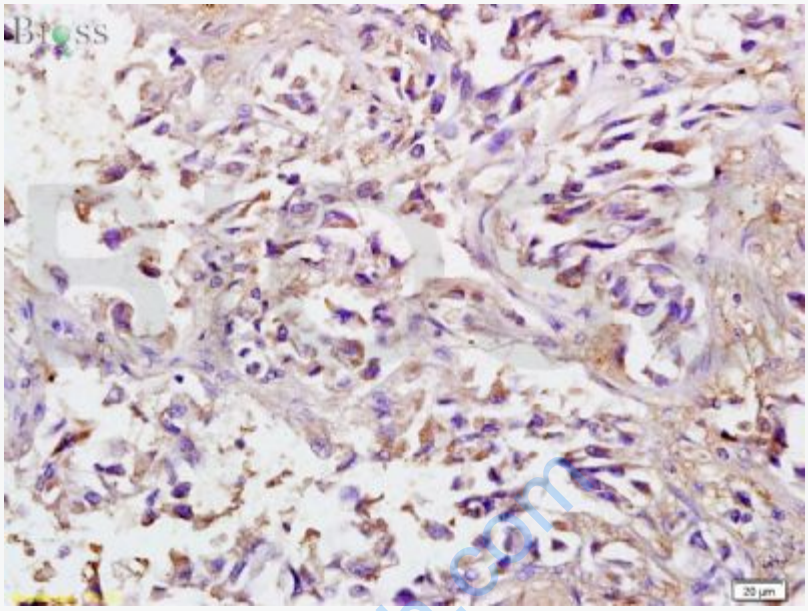



**Figure 2. Expression of SPARC in human ovarian tissues using antibody AF941 and bs-1133R.** (A) Normal human ovarian tissue using antibody AF941, (B) Benign ovarian tumor using antibody AF941, (C) High differentiation of ovarian carcinoma using antibody AF941, (D) Medium differentiation of ovarian carcinoma using antibody AF941, (E) Low differentiation of ovarian carcinoma using antibody AF941, (F) Normal human ovarian tissue using antibody bs-1133R, (G) Benign ovarian tumor using antibody bs-1133R, (H) High differentiation of ovarian carcinoma using

Formalin-fixed and paraffin embedded human ovarian tissue labeled with Anti-SPARC Polyclonal Antibody, Unconjugated (SL1133R) at 1:200 followed by conjugation to the secondary antibody and DAB staining.



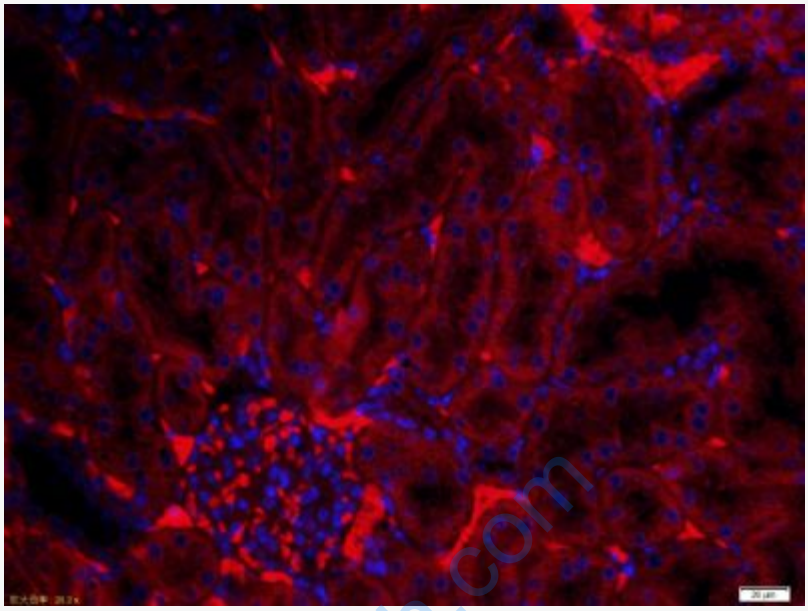
Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPARC) Polyclonal Antibody, Unconjugated (SL1133R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-SPARC Polyclonal Antibody, Unconjugated(SL1133R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



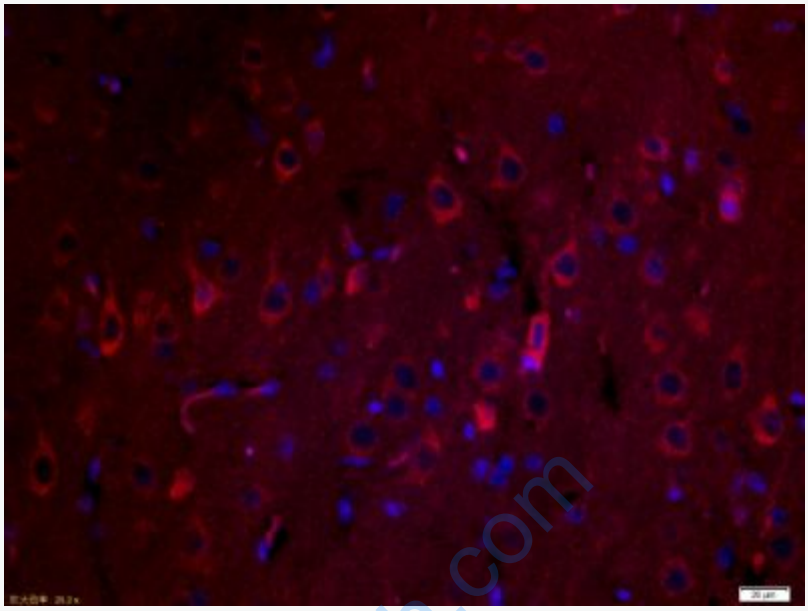
Tissue/cell: mouse kidney tissue;4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min;

Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;

Incubation: Anti-SPARC Polyclonal Antibody, Unconjugated(SL1133R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL1133R)used at 1:200 dilution for 40 minutes at 37°C.

DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei



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℃ for 20 min;

Incubation: Anti-SPARC Polyclonal Antibody, Unconjugated(SL1133R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL1133R)used at 1:200 dilution for 40 minutes at 37°C.

DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei