

Rabbit Anti-SPARC antibody

SL41345R

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.

Research Area Tumour Cell biology Signal transduction Stem cells Cyclin Cytoskeleton Extracellular matrix

Immunogen Species Rabbit

Clonality Polyclonal

React Species Human Mouse Rat

Applications WB=1:500-2000,IHC-P=1:400-800,IHC-F=1:400-800,IF=1:100-500,ELISA=1:5000-10000
(Paraffin sections need antigen repair)
not yet tested in other applications.
optimal dilutions/concentrations should be determined by the end user.

Theoretical molecular weight 33kDa

Cellular localization The cell membrane Extracellular matrix Secretory protein

Form Liquid

Concentration 1mg/ml

immunogen Recombinant human SPARC protein: 18-303/303

Lsotype IgG

Purification affinity purified by Protein A

Buffer Solution Human,Mouse,Rat1M TBS(pH7.4) with 1% BSA, Human,Mouse,Rat3% Proclin300 and 50% Glycerol.

Storage Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

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

PubMed

[PubMed](#)

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].

Function:

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.

Subcellular Location:

Secreted, extracellular space, extracellular matrix, basement membrane. Note=In or around the basement membrane.

Similarity:

Belongs to the SPARC family.
Contains 1 EF-hand domain.
Contains 1 follistatin-like domain.
Contains 1 Kazal-like domain.

**Product
Detail**

SWISS:

P09486

Gene ID:

6678

Database links:

[Entrez Gene: 6678](#) Human

[Omim: 182120](#) Human

[SwissProt: P09486](#) Human

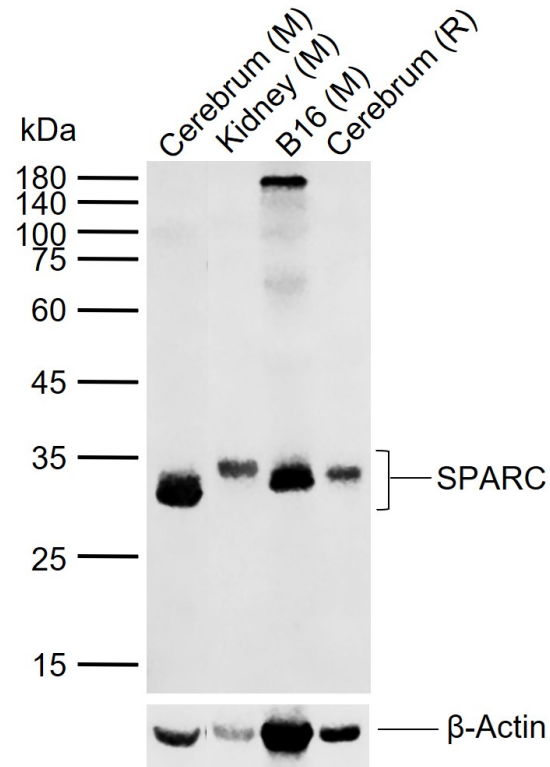
[Unigene: 111779](#) Human

[Unigene: 708558](#) Human

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。

**Product
Picture**



Sample:

Lane 1: Mouse Cerebellum tissue lysates

Lane 2: Mouse Kidney tissue lysates

Lane 3: Mouse B16 cell lysates

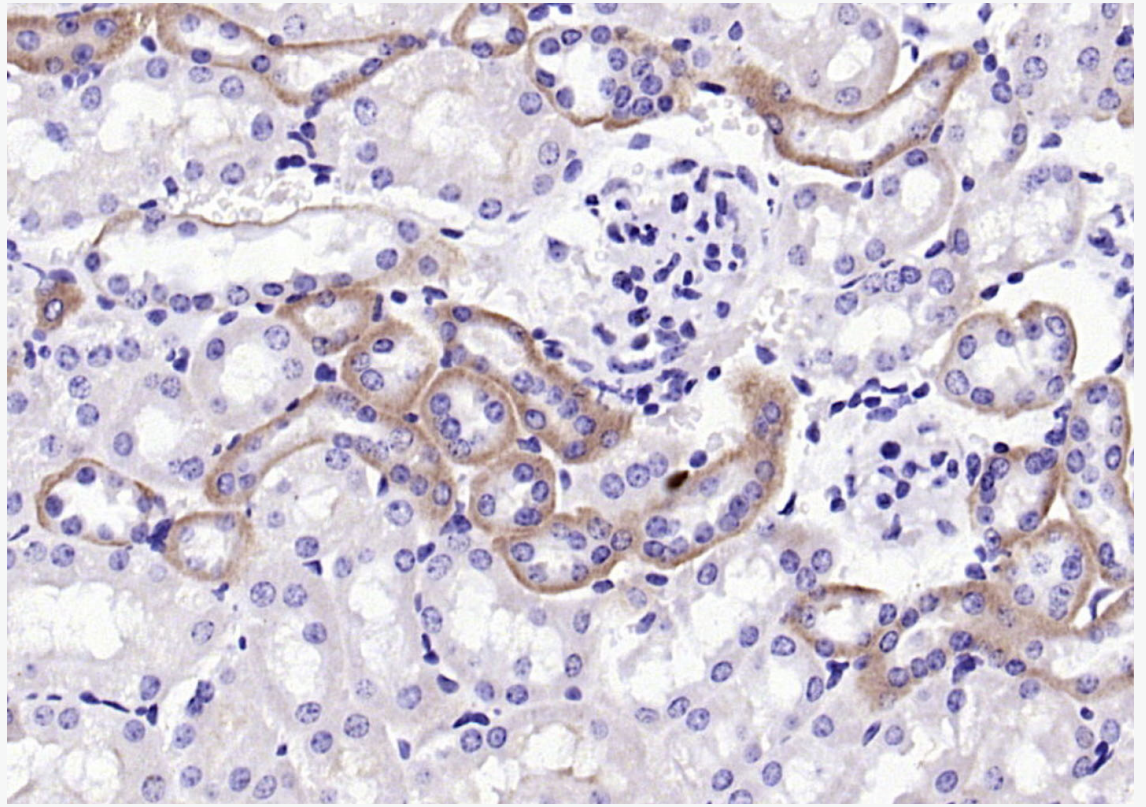
Lane 4: Rat Cerebrum tissue lysates

Primary: Anti-SPARC (SL41345R) at 1/1000 dilution

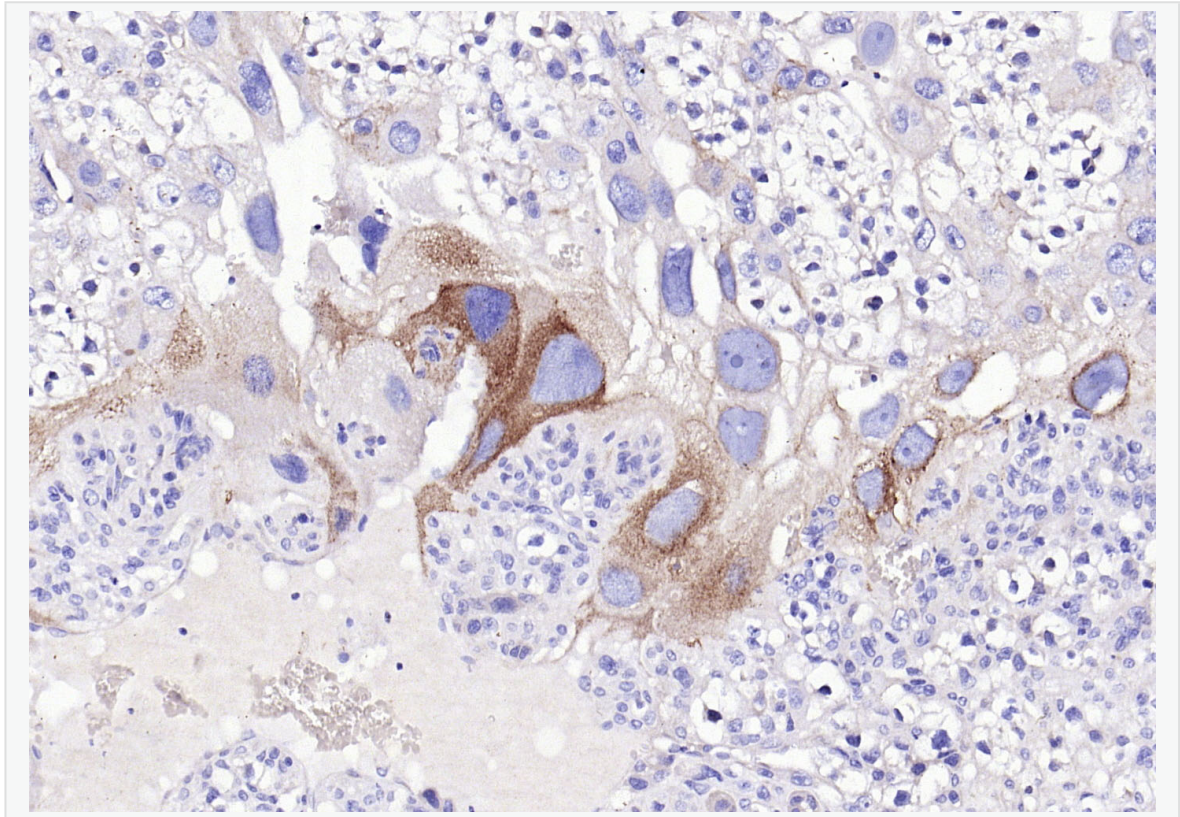
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 33 kDa

Observed band size: 33 kDa

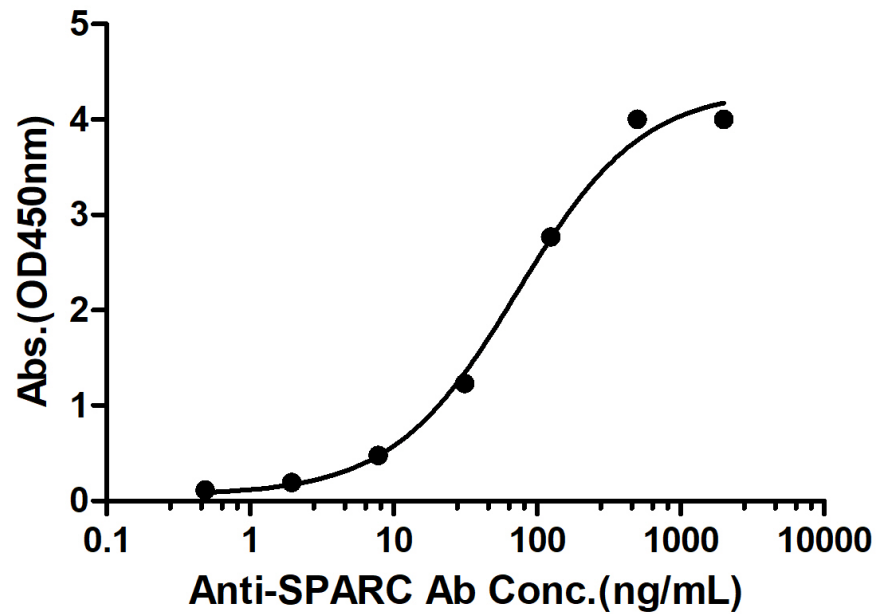


Paraformaldehyde-fixed, paraffin embedded (mouse kidney); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPARC) Polyclonal Antibody, Unconjugated (SL41345R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



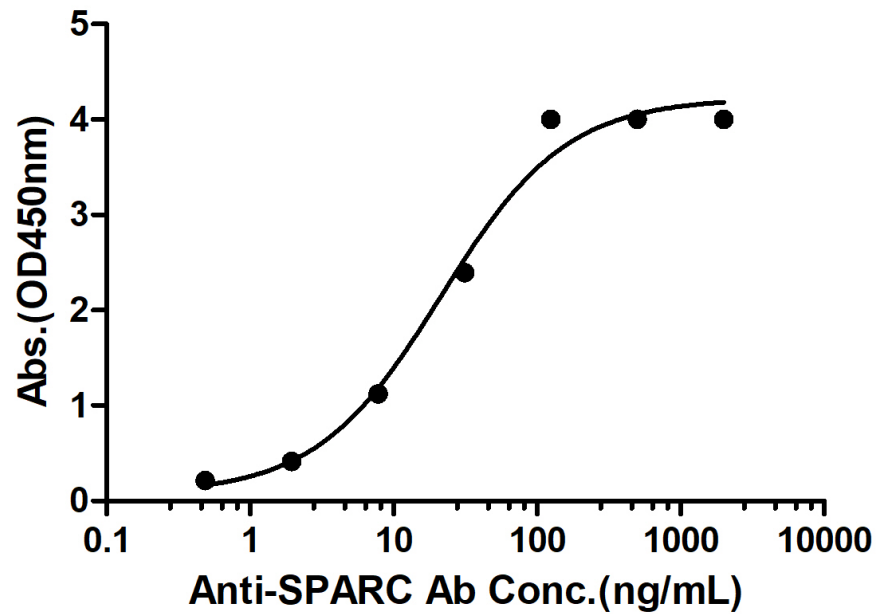
Paraformaldehyde-fixed, paraffin embedded (rat placenta); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (SPARC) Polyclonal Antibody, Unconjugated (SL41345R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

Rabbit Anti-Human SPARC Antibody Bind with Human SPARC protein, His Tag



Measured by its binding ability in a indirect ELISA. Immobilized Human SPARC protein, His Tag (Cat. SL41345P) at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Rabbit Anti-Human SPARC Antibody, the EC50 is 72.97 ng/mL.

Rabbit Anti-Human SPARC Antibody Bind with Human SPARC protein, His Tag



Measured by its binding ability in a indirect ELISA. Immobilized Human SPARC protein, His Tag (Cat. SL41345P) at 2 $\mu\text{g/mL}$ (100 $\mu\text{L/well}$) can bind Rabbit Anti-Human SPARC Antibody, the EC50 is 21.47 ng/mL.