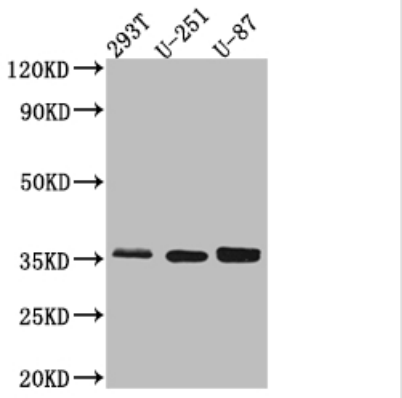
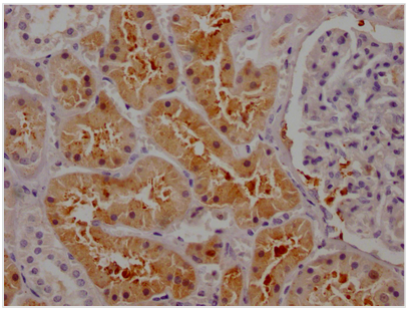
SPP1 Antibody

Product Code	CSB-RA261140A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P10451
Immunogen	A synthesized peptide derived from human Osteopontin
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200
Relevance	Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Cardiovascular; Signal transduction; Stem cells
Gene Names	SPP1
Accession NO.	10A1

Image



Western Blot
Positive WB detected in: 293T whole cell lysate, U-251 whole cell lysate, U-87 whole cell lysate
All lanes: Osteopontin Antibody at 1:1000
Secondary
Goat polyclonal to rabbit IgG at 1/50000 dilution
Predicted band size: 36, 34, 33, 34, 34 kDa
Observed band size: 36 kDa



IHC image of CSB-RA261140A0HU diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

SPP1, also called Osteopontin (OPN), is a multifunctional secreted integrin-binding glycol-phosphoprotein, that has been suggested to have a prognostic value and to be involved in the tamoxifen response. Overexpression of SPP1 has been found in various tumors, such as liver cancer, LC, prostate cancer (PCa), BC, and CRC. SPP1 exerts its effects by interacting with receptors that ultimately lead to tumor progression, invasion, and metastasis. High expression levels of SPP1 are associated with poor prognosis. Moreover, SPP1 was involved in tumor immunosuppression and influenced the tumor microenvironment.

The main steps in the production of this SPP1 recombinant antibody include immunization; harvest of positive spleen cells; obtaining the antibody sequence by screening and sequencing; expression of the target antibody in mammalian cells; purification. The SPP1 antibody was produced recombinantly and has many advantages: high reproducibility, specificity and scalability. And has been validated in ELISA, WB, IHC.