

# SPP1 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP6555b

#### **Product Information**

**Application** IHC-P, FC, WB, E

**Primary Accession** P10451 Reactivity Human Host Rabbit Clonality Polyclonal Isotype Rabbit IgG **Clone Names** RB18957 **Calculated MW** 35423 **Antigen Region** 273-301

#### **Additional Information**

**Gene ID** 6696

Other Names Osteopontin, Bone sialoprotein 1, Nephropontin, Secreted phosphoprotein 1,

SPP-1, Urinary stone protein, Uropontin, SPP1, BNSP, OPN

**Target/Specificity** This SPP1 antibody is generated from rabbits immunized with a KLH

conjugated synthetic peptide between 273-301 amino acids from the

C-terminal region of human SPP1.

**Dilution** IHC-P~~1:100~500 FC~~1:10~50 WB~~1:1000 E~~Use at an assay dependent

concentration.

**Format** Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.

This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation

followed by dialysis against PBS.

**Storage** Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store

at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions** SPP1 Antibody (C-term) is for research use only and not for use in diagnostic

or therapeutic procedures.

#### **Protein Information**

Name SPP1

Synonyms BNSP, OPN

**Function** Major non-collagenous bone protein that binds tightly to hydroxyapatite.

Appears to form an integral part of the mineralized matrix. Probably

important to cell-matrix interaction.

Cellular Location Secreted

**Tissue Location** Detected in cerebrospinal fluid and urine (at protein level)

(PubMed:25326458, PubMed:36213313, PubMed:37453717) Bone. Found in

plasma.

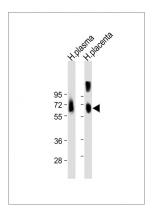
## **Background**

SPP1 binds tightly to hydroxyapatite. The protein appears to form an integral part of the mineralized matrix and probably important to cell-matrix interaction. It acts as a cytokine involved in enhancing production of interferon-gamma and interleukin-12 and reducing production of interleukin-10 and is essential in the pathway that leads to type I immunity.

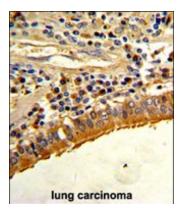
#### References

Macri, A., Tumori 95 (1), 48-52 (2009) Agnihotri, R., J. Biol. Chem. 276 (30), 28261-28267 (2001)

### **Images**

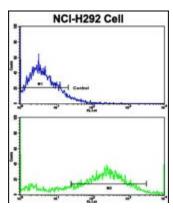


All lanes: Anti-SPP1 Antibody (C-term) at 1:2000 dilution Lane 1: Human plasma lysate Lane 2: Human placenta lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size: 35 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



Formalin-fixed and paraffin-embedded human lung carcinoma with SPP1 Antibody (C-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Flow cytometric analysis of NCI-H292 cells using SPP1 Antibody (C-term)(bottom histogram) compared to a negative control cell (top histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.