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SPP1 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP6555a

Specification

SPP1 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P10451

SPP1 Antibody (N-term) Blocking Peptide - 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
The synthetic peptide sequence used to generate the antibody AP6555a was selected from the N-term region of human SPP1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SPP1 Antibody (N-term) Blocking Peptide - 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.

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SPP1 Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

SPP1 Antibody (N-term) Blocking Peptide - Images

SPP1 Antibody (N-term) Blocking Peptide - 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.

SPP1 Antibody (N-term) Blocking Peptide - References

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