

**OPN-a/b Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP11567a****Specification**

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**OPN-a/b Antibody (N-term) Blocking peptide - Product Information**Primary Accession [P10451](#)**OPN-a/b 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

**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.

**OPN-a/b 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.

**OPN-a/b Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

#### **OPN-a/b Antibody (N-term) Blocking peptide - Images**

#### **OPN-a/b Antibody (N-term) Blocking peptide - Background**

Binds tightly to hydroxyapatite. Appears to form an integral part of the mineralized matrix. Probably important to cell-matrix interaction. 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 (By similarity).

#### **OPN-a/b Antibody (N-term) Blocking peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Weber, G.F., et al. Br. J. Cancer 103(6):861-869(2010) Chen, R.X., et al. J. Gastroenterol. Hepatol. 25(8):1435-1442(2010) Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) : Johnatty, S.E., et al. PLoS Genet. 6 (7), E1001016 (2010) :