

**MEPE Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12395a****Specification****MEPE Antibody (N-term) Blocking peptide - Product Information**

Primary Accession [Q9NO76](#)

**MEPE Antibody (N-term) Blocking peptide - Additional Information**

**Gene ID** 56955

**Other Names**

Matrix extracellular phosphoglycoprotein, Osteoblast/osteocyte factor 45, OF45, MEPE

**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.

**MEPE Antibody (N-term) Blocking peptide - Protein Information**

**Name** MEPE

**Function**

Promotes renal phosphate excretion and inhibits intestinal phosphate absorption (PubMed:<a href="http://www.uniprot.org/citations/14962809" target="\_blank">14962809</a>, PubMed:<a href="http://www.uniprot.org/citations/19005008" target="\_blank">19005008</a>). Promotes bone mineralization by osteoblasts and cartilage mineralization by chondrocytes (PubMed:<a href="http://www.uniprot.org/citations/18162525" target="\_blank">18162525</a>, PubMed:<a href="http://www.uniprot.org/citations/19998030" target="\_blank">19998030</a>, PubMed:<a href="http://www.uniprot.org/citations/22766095" target="\_blank">22766095</a>). Regulates the mineralization of the extracellular matrix of the craniofacial complex, such as teeth, bone and cartilage (By similarity). Promotes dental pulp stem cell proliferation and differentiation (PubMed:<a href="http://www.uniprot.org/citations/22341070" target="\_blank">22341070</a>).

**Cellular Location**

Secreted, extracellular space, extracellular matrix Secreted

**Tissue Location**

Detected in urine (at protein level) (PubMed:37453717). Expressed by osteoblasts (PubMed:10945470, PubMed:11414762, PubMed:15108058). Expressed by stem cells in dental pulp (PubMed:15153459). Expressed by mesenchymal cells in dental papilla and dental pulp

(PubMed:18547474, PubMed:22341070). Expressed in teeth, specifically in deciduous dentin (PubMed:20581062). Expressed in odontoblasts (PubMed:12489176). Expressed in salivary glands (PubMed:15329369). Secreted from oncogenic hypophosphatemic tumors (PubMed:11414762).

### **MEPE Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

### **MEPE Antibody (N-term) Blocking peptide - Images**

### **MEPE Antibody (N-term) Blocking peptide - Background**

MEPE seems to play a role in mineralization.

### **MEPE Antibody (N-term) Blocking peptide - References**

Boskey, A.L., et al. Calcif. Tissue Int. 86(1):42-46(2010)Pereira, R.C., et al. Bone 45(6):1161-1168(2009)Yerges, L.M., et al. J. Bone Miner. Res. 24(12):2039-2049(2009)Rivadeneira, F., et al. Nat. Genet. 41(11):1199-1206(2009)Marks, J., et al. J. Am. Soc. Nephrol. 19(12):2313-2320(2008)