

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

MEPE Antibody (N-term) Blocking peptide - Product InformationPrimary Accession [Q9NQ76](#)**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:14962809, PubMed:19005008). Promotes bone mineralization by osteoblasts and cartilage mineralization by chondrocytes (PubMed:18162525, PubMed:19998030, PubMed:22766095). 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:22341070).

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)