

AMTN Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP17897a**Specification**

AMTN Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q6UX39](#)**AMTN Antibody (N-term) Blocking Peptide - Additional Information**

Gene ID 401138

Other Names

Amelotin, AMTN

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.

AMTN Antibody (N-term) Blocking Peptide - Protein Information

Name AMTN

Function

Is a promoter of calcium phosphate mineralization, playing a critical role in the formation of the compact, mineralized, aprismatic enamel surface layer during the maturation stage of amelogenesis.

Cellular Location

Secreted {ECO:0000250|UniProtKB:Q9D3J8}.

AMTN Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

AMTN Antibody (N-term) Blocking Peptide - Images**AMTN Antibody (N-term) Blocking Peptide - Background**

The mineralized portions of teeth, the dentin and enamel, are formed by mesenchyme-derived odontoblasts and epithelium-derived ameloblasts, respectively. As ameloblasts differentiate, they deposit specific proteins necessary for enamel formation, including amelogenin (AMELX; MIM 300391), enamelin (ENAM; MIM 606585), and ameloblastin (AMBN; MIM 601259), in the organic enamel matrix. Amelotin is specifically expressed in maturation-stage ameloblasts (Iwasaki et al., 2005 [PubMed 16304441]).

AMTN Antibody (N-term) Blocking Peptide - References

Moffatt, P., et al. Biochem. J. 399(1):37-46(2006) Iwasaki, K., et al. J. Dent. Res. 84(12):1127-1132(2005) Zhang, Z., et al. Protein Sci. 13(10):2819-2824(2004) Clark, H.F., et al. Genome Res. 13(10):2265-2270(2003)