

AMTN Antibody (N-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17897a**Specification**

AMTN Antibody (N-term) - Product Information

Application	WB,E
Primary Accession	Q6UX39
Other Accession	NP_997722.1
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	21588
Antigen Region	13-41

AMTN Antibody (N-term) - Additional Information**Gene ID** 401138**Other Names**

Amelotin, AMTN

Target/Specificity

This AMTN antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 13-41 amino acids from the N-terminal region of human AMTN.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

AMTN Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

AMTN Antibody (N-term) - 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

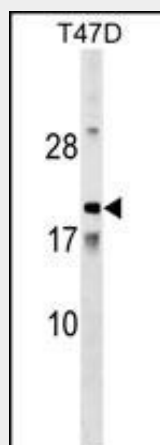
Secreted {ECO:0000250|UniProtKB:Q9D3J8}.

AMTN Antibody (N-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AMTN Antibody (N-term) - Images



AMTN Antibody (N-term) (Cat. #AP17897a) western blot analysis in T47D cell line lysates (35ug/lane). This demonstrates the AMTN antibody detected the AMTN protein (arrow).

AMTN Antibody (N-term) - 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) - 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)