

# AMTN Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP17897a

## Product Information

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|-------------------|-----------------------------|
| Application       | WB, E                       |
| Primary Accession | <a href="#">Q6UX39</a>      |
| Other Accession   | <a href="#">NP_997722.1</a> |
| Reactivity        | Human                       |
| Host              | Rabbit                      |
| Clonality         | Polyclonal                  |
| Isotype           | Rabbit IgG                  |
| Clone Names       | RB28488                     |
| Calculated MW     | 21588                       |
| Antigen Region    | 13-41                       |

## Additional Information

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|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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.                                                                     |

## Protein Information

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| 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. |

## Background

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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]).

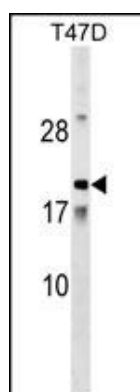
## References

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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)

## Images

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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).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.