

## Rabbit AMELX Polyclonal Antibody | anti-AMELX antibody

AMELX Antibody

| CATALOG # | HOST   | REACTIVITY                                                                                   | APPLICATIONS |
|-----------|--------|----------------------------------------------------------------------------------------------|--------------|
| AAA329193 | Rabbit | Human, Mouse, Monkey<br>Predicted Reactivity: Pig(100%), Bovine(100%), Horse(88%), Dog(100%) | ELISA        |

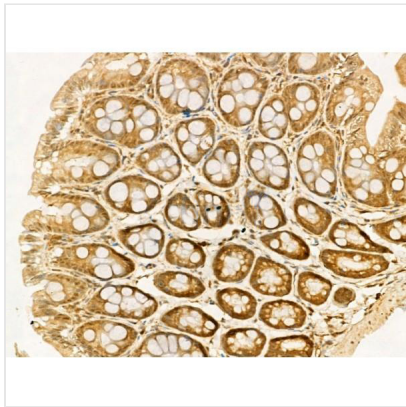
### PRODUCT SYNONYMS

AMELX; Polyclonal Antibody; AMELX Antibody; AI1E; AIH1; ALGN; Amel; Amelogenesis imperfecta 1; Amelogenin (amelogenesis imperfecta 1; X linked); Amelogenin (X chromosome); Amelogenin (X chromosome; amelogenesis imperfecta 1); Amelogenin; Amelogenin X isoform; X linked; AMELX\_HUMAN; Amg; AMGL; AMGX; OTTHUMP00000022906; OTTHUMP00000022907; X isoform; anti-AMELX antibody

### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                          |
|-------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Rabbit                                                                                                                   |
| Reactivity                                      | Human, Mouse, Monkey<br>Predicted Reactivity: Pig(100%), Bovine(100%), Horse(88%), Dog(100%)                             |
| Clonality                                       | Polyclonal                                                                                                               |
| Isotype                                         | IgG                                                                                                                      |
| Specificity                                     | AMELX Antibody detects endogenous levels of total AMELX.                                                                 |
| Purity/Purification                             | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin (Thermo Fisher Scientific). |
| Form/Format                                     | Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol                  |
| Concentration                                   | 1mg/ml (varies by lot)                                                                                                   |
| Sequence Length                                 | 191                                                                                                                      |
| Applicable Applications for anti-AMELX antibody | ELISA                                                                                                                    |
| Immunogen                                       | A synthesized peptide derived from human AMELX, corresponding to a region within the internal amino acids.               |
| Fragment                                        | Fab fragment                                                                                                             |
| Preparation and Storage                         | Store at -20 degree C. Stable for 12 months from date of receipt.                                                        |

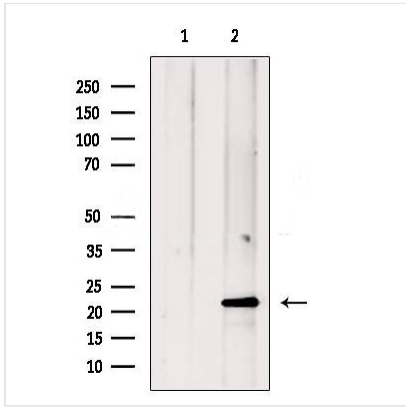
IMAGES



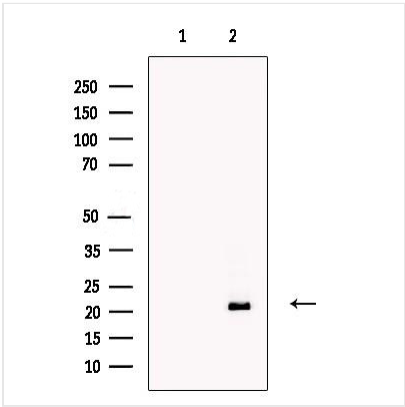
**IHC (Immunohistochemistry)**  
AAA329193 at 1/100 staining Mouse colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**IHC (Immunohistochemistry)**  
AAA329193 at 1/100 staining Mouse muscle tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4Â°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



**WB (Western Blot)**  
Western blot analysis of extracts from COS, using AMELX Antibody. The lane on the left was treated with blocking peptide.



**WB (Western Blot)**  
Western blot analysis of extracts from Jurkat, using AMELX Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                           |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-AMELX antibody | Function: Plays a role in biomineralization. Seems to regulate the formation of crystallites during the secretory stage of tooth enamel development. Thought to play a major role in the structural organization and mineralization of developing enamel. |
|                                                     | Post Translational Modifications: Phosphorylated by FAM20C in vitro.                                                                                                                                                                                      |
|                                                     | Subcellular Location: Secreted>Extracellular space>Extracellular matrix.                                                                                                                                                                                  |
|                                                     | Similarity: Belongs to the amelogenin family.                                                                                                                                                                                                             |

NCBI AND UNIPROT INFORMATION

|                           |             |
|---------------------------|-------------|
| NCBI GI #                 | 4502071     |
| NCBI GeneID               | 265         |
| NCBI Accession #          | NP_001133.1 |
| NCBI GenBank Nucleotide # | NP_001133.1 |
| UniProt Accession #       | Q99217      |

|                                  |                                                                                              |
|----------------------------------|----------------------------------------------------------------------------------------------|
| Molecular Weight                 | Observed Molecular Weight: (Observed)21kD.<br>Predicted Molecular Weight: (Calculated)22kDa. |
| NCBI Official Full Name          | amelogenin, X isoform isoform 1                                                              |
| NCBI Official Synonym Full Names | amelogenin X-linked                                                                          |
| NCBI Official Symbol             | AMELX                                                                                        |
| NCBI Official Synonym Symbols    | AMG; AI1E; AIH1; ALGN; AMGL; AMGX                                                            |
| NCBI Protein Information         | amelogenin, X isoform                                                                        |
| UniProt Protein Name             | Amelogenin, X isoform                                                                        |
| UniProt Gene Name                | <b>AMELX</b>                                                                                 |
| UniProt Synonym Gene Names       | AMG; AMGX                                                                                    |
| UniProt Entry Name               | AMELX_HUMAN                                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/polyclonal/amelx-antibody-elisa/329193>