Anti-AMELX antibody ab54507

Overview

Product name: Anti-AMELX antibody
Description: Rabbit polyclonal to AMELX
Host species: Rabbit
Tested applications: Suitable for: WB, ELISA
Species reactivity: Reacts with: Recombinant fragment
Predicted to work with: Mouse, Rat
Immunogen: A synthetic peptide corresponding to N-terminal residues of mouse AMELX.

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.1% Sodium azide
Constituents: 50% Glycerol, PBS
Purity: Immunogen affinity purified
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab54507 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>Use a concentration of 1 µg/ml. Predicted molecular weight: 22 kDa. for 2 hours. This antibody has been tested in Western blot against the recombinant peptide used as an immunogen. We have no data on detection of endogenous protein.</td>
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<tr>
<td>ELISA</td>
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<td>Use at an assay dependent dilution.</td>
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<td>Target</td>
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<tr>
<td><strong>Function</strong></td>
<td>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.</td>
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<tr>
<td><strong>Involvement in disease</strong></td>
<td>Defects in AMELX are the cause of amelogenesis imperfecta hypoplastic type 1 (AIH1) [MIM:301200]. AIH1 is a X-linked defect of dental enamel formation. Teeth have only a thin layer of enamel with normal hardness. The thinness of the enamel makes the teeth appear small.</td>
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<td><strong>Sequence similarities</strong></td>
<td>Belongs to the amelogenin family.</td>
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<td><strong>Developmental stage</strong></td>
<td>Transiently but abundantly expressed by ameloblasts during tooth development. Amelogenin is the predominant protein in developing dental enamel.</td>
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<tr>
<td><strong>Cellular localization</strong></td>
<td>Secreted &gt; extracellular space &gt; extracellular matrix.</td>
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</tbody>
</table>

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