



## ***Biotinylated Anti-mouse Ameloblastin Antibody***

### **ORDERING INFORMATION**

**Catalog Number:** BAF3026

**Lot Number:** WOX01

**Size:** 50 µg

**Formulation:** 0.2 µm filtered solution in PBS  
with BSA

**Storage:** -20° C

**Reconstitution:** sterile 0.1% BSA in TBS

**Specificity:** mouse Ameloblastin

**Immunogen:** NS0-derived rmAmeloblastin

**Ig Type:** goat IgG

**Application:** Western blot

### ***Preparation***

Produced in goats immunized with purified, NS0-derived, recombinant mouse Ameloblastin (rmAmeloblastin; aa 27 - 407; Accession # O55189). Mouse Ameloblastin specific IgG was purified by mouse Ameloblastin affinity chromatography and then biotinylated. Ameloblastin, also known as amelin and sheathlin, is a 66 kDa secreted tooth-specific glycoprotein. It is a major enamel matrix protein that promotes enamel formation in teeth. Ameloblastin is secreted primarily by secretory ameloblasts. It is a cell adhesion molecule required for amelogenesis. In addition to the isoform used as immunogen, a second variant with a 15 aa insertion between Q113 and P114 (AAH 87927) is known. The amino acid sequence of mature mouse ameloblastin is 96% and 67% identical to that of rat and human ameloblastin, respectively.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

### ***Reconstitution***

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 µg/mL.

### ***Storage***

Lyophilized samples are stable for twelve months from date of receipt when stored at -20° C to -70° C. Upon reconstitution, the antibody can be stored at 2° - 8° C for 1 month without detectable loss of activity. Reconstituted antibody can also be aliquotted and stored frozen at -20° C to -70° C **in a manual defrost freezer** for six months without detectable loss of activity. **Avoid repeated freeze-thaw cycles.**

### ***Specificity***

This antibody has been selected for use as a detection antibody in mouse Ameloblastin western blots.

### ***Application***

**Western Blot** - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse Ameloblastin. The detection limit for rmAmeloblastin is approximately 2 ng/lane under non-reducing and reducing conditions.

**Optimal dilutions should be determined by each laboratory for each application.**