



## *Biotinylated Anti-mouse EDAR Antibody*

### ORDERING INFORMATION

**Catalog Number:** BAM7452

**Clone:** 132144

**Lot Number:** CAGT01

**Size:** 250 µg

**Formulation:** 0.2 µm filtered solution in PBS  
with 5% trehalose

**Storage:** -20° C

**Reconstitution:** sterile PBS

**Specificity:** mouse EDAR

**Immunogen:** NS0-derived rmEDAR

**Ig class:** rat IgG<sub>2A</sub>

**Recommended Application:**  
ELISA detection

### ***Background***

Ectodysplasin-A receptor (EDAR) is a type I transmembrane protein in the TNF receptor superfamily. Both EDAR and its ligand, EDA-A1, have been associated with hypohidrotic ectodermal dysplasia which is characterized by abnormalities in hair, teeth and eccrine sweat gland morphogenesis. Human and mouse EDAR share 91% aa sequence identity.

### ***Preparation***

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a rat immunized with purified, NS0-derived, recombinant mouse EDAR extracellular domain (rmEDAR; aa 27 - 187; Accession # Q9R187). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography and then biotinylated.

### ***Formulation***

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 50 µg BSA per µg antibody.

### ***Reconstitution***

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 500 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 detects rmEDAR in direct ELISAs.

### ***Application***

**ELISA detection** - This biotinylated antibody can be used as a detection reagent in a mouse EDAR sandwich immunoassay in combination with mouse EDAR capture reagent (Cat. # MAB7451) and recombinant mouse EDAR (Cat. # 745-ED) as the standard. The suggested concentration range for this detection reagent is 0.5 - 2 µg/mL and should be titrated to determine the optimal concentration. When used in this format, this antibody shows less than 10% cross-reactivity with rhEDAR and no cross-reactivity with rmEDA, rmTROY, or rhXEDAR. A general protocol is provided at [www.RnDSystems.com/go/MAPELISA](http://www.RnDSystems.com/go/MAPELISA).

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