



Monoclonal Anti-mouse EDAR Antibody

ORDERING INFORMATION

Catalog Number: MAB7451

Clone: 132106

Lot Number: ZTY01

Size: 500 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_{2A}

Recommended Application:
ELISA capture

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.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) with 5% trehalose.

Reconstitution

Reconstitute with sterile PBS. If 1 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 capture - This product can be used as a capture reagent in a mouse EDAR sandwich immunoassay in combination with biotinylated mouse EDAR detection antibody (Cat. # BAM7452) and recombinant mouse EDAR (Cat. # 745-ED) as the standard. The suggested coating concentration range is 2 - 8 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.

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