



Monoclonal Anti-human EDA Antibody

ORDERING INFORMATION

Catalog Number: MAB9222

Clone: 174806

Lot Number: XVX01

Size: 500 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human EDA

Immunogen: NS0-derived rhEDA-A2 extracellular domain

Ig class: mouse IgG_{2b}

Recommended Application:
ELISA capture

Background

The products of the Ectodysplasin A gene (EDA, also called Tabby) are type II transmembrane proteins that belong to the TNF superfamily. The EDA gene encodes two splice variants, designated EDA-A1 and EDA-A2, that differ only by the deletion of two amino acids in the extracellular domain of EDA-A2. Despite this minor difference, the EDA isoforms display strong receptor specificity. EDA-A1 only binds EDAR, a member of the TNF Receptor superfamily (TNFRSF), whereas EDA-A2 binds to XEDAR, an X-linked TNFRSF member with high homology to EDAR.

Preparation

This antibody was produced from a hybridoma resulting from the fusion of a mouse myeloma with B cells obtained from a mouse immunized with purified, NS0-derived, recombinant human EDA-A2 (rhEDA-A2; Accession # AAC77371) extracellular domain. 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 rhEDA-A1 and rhEDA-A2 in direct ELISAs. In this application this antibody shows no cross-reactivity with the proteins tested.¹

Application

ELISA capture - This product can be used as a capture reagent in a human EDA sandwich immunoassay in combination with biotinylated, human EDA detection antibody (Cat. # BAM9221) and recombinant human EDA, (Cat. # 922-ED) as the standard. The suggested coating concentration range is 2 - 8 µg/mL and should be titrated to determine the optimal concentration. A general protocol is provided at www.rndsystems.com/go/MAPELISA.

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

¹rhAPRIL, rhFasL, rhOX40L, rhGITRL, rhLTαβ2, rhTRAIL, rhTRANCE, rhTWEAK, rh4-1BBL, rhVEGI, rhBAFF, rhLIGHT, rhTNFα, rmDcTRAILR2