

ORDERING INFORMATION

Catalog Number: MAB2378

Clone: 270012

Lot Number: VYG01

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse DcTRAIL R1

Immunogen: NS0-derived rmDcTRAIL R1

Ig class: rat IgG_{2A}

Recommended Application:
Western blot

Other Applications:
Immunohistochemistry
Direct ELISA

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 Decoy TRAIL Receptor 1 (rmDcTRAIL R1). The IgG fraction of the tissue culture supernatant was purified by Protein G affinity chromatography. DcTRAIL R1, also known as TNFRH1 and mSOB, is a GPI-anchored TNF receptor superfamily member that lacks a cytoplasmic death domain and does not induce apoptosis. No known human homolog of mouse DcTRAIL R1 is known.

Formulation

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

Reconstitution

Reconstitute with sterile PBS. If 0.2 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 was selected for its ability to detect mouse DcTRAIL R1 by immunohistochemistry. In western blots, this antibody shows less than 10% cross-reactivity with rm4-1BB Ligand, rhBAFF R, rhDcTRAIL R3, rmFas, rmOPG, rhTRAIL R4 and does not cross-react with other proteins tested.¹

Applications

Western Blot - This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect mouse DcTRAIL R1. Using a colorimetric detection system, the detection limit for rmDcTRAIL R1 is approximately 25 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommended. Chemiluminescent detection with WesternGlo Chemiluminescent Detection Substrate (R&D Systems, Catalog # AR004) will increase sensitivity by 5 to 50 fold.

Immunohistochemistry - A biotin conjugate of this antibody was used at a concentration of 25 µg/mL with appropriate secondary reagents to detect DcTRAIL R1 in frozen mouse thymus tissue sections. For chromogenic detection of labeling, the use of R&D Systems' Cell and Tissue Staining Kits (CTS Series) is recommended.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse DcTRAIL R1. The detection limit for rmDcTRAIL R1 is approximately 2 ng/well.

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

1. rmCD27, rmCD30, rmDR3, rhDR6, rmEDAR, rfeFas, rhFas, rrFas, rmGITR, rmHVEM, rmLymphotoxin beta R, rmNGF R, rmOX40, rmTNF RI, rmTNF RII, rhTRAIL R1, rhTROY