



Monoclonal Anti-mouse OX40 Ligand/TNFSF4 Antibody

ORDERING INFORMATION

Catalog Number: MAB12362

Clone: 182609

Lot Number: CAOT01

Size: 500 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse OX40 Ligand

Immunogen: NS0-derived rmOX40 Ligand

Ig class: rat IgG_{2A}

Recommended Applications:

ELISA capture
Western blot

Background

OX40 Ligand, also known as gp34, is a type II transmembrane glycoprotein belonging to the TNF superfamily and is now designated TNFSF4. Engagement of OX40 Ligand by OX40 (CD134) on activated CD4⁺ T cells promotes the proliferation and differentiation of activated B cells.

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 OX40 Ligand extracellular domain (rmOX40 Ligand; aa 51 - 198; Accession # P43488). 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 rmOX40 Ligand in direct ELISAs and Western blots. In Western blots, this antibody shows 100 % cross-reactivity with rmTNF- α , 15 - 30% with rmTRANCE and rmTRAIL, and no cross-reactivity with rmBAFF, rmEDA, rmGITR Ligand, rmLIGHT, rmTWEAK, rmFas Ligand, rhAPRIL, or rhOX40 Ligand.

Applications

ELISA capture - This product can be used as a capture reagent in a mouse OX40 Ligand sandwich immunoassay in combination with biotinylated mouse OX40 Ligand detection antibody (Cat. # BAM12361) and recombinant mouse OX40 Ligand (Cat. # 1236-OX) 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. In this format, no cross-reactivity or interference was detected with rmOX40, rhOX40 Ligand, rmFas Ligand, rmLIGHT, or rhLIGHT.

Western blot - This antibody can be used at 1 - 2 µg/mL with the appropriate secondary reagents to detect mouse OX40 Ligand. Using a colorimetric detection system, the detection limit for rmOX40 Ligand is approximately 25 ng/lane under non-reducing conditions. Use of this antibody under reducing conditions is not recommended. Chemiluminescent detection will increase sensitivity by 5 to 50 fold.

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

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