



Anti-mouse TARC Antibody

ORDERING INFORMATION

Catalog Number: AF529

Lot Number: CXM02

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse TARC

Immunogen: *E. coli*-derived rmTARC

Ig Type: mouse TARC specific goat IgG

Applications: Neutralization of bioactivity
Western blot
ELISA

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant mouse TARC (rmTARC). Mouse TARC specific IgG was purified by mouse TARC affinity chromatography.

Formulation

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

Endotoxin Level

< 0.01 EU per 1 µg of the antibody as determined by the LAL method.

Reconstitution

Reconstitute with sterile PBS. If 1 mL of PBS is used, the antibody concentration will be 0.1 mg/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 has been selected for its ability to neutralize the biological activity of rmTARC. This antibody will also neutralize the biological activity of rhTARC using a 20 fold greater Ig concentration. Based on direct ELISA and western blots, this antibody shows approximately 25% cross-reactivity with rhTARC. Additionally, in direct ELISAs, this antibody shows no cross-reactivity with other chemokines tested.¹

Neutralization of Mouse TARC Bioactivity

The exact concentration of antibody required to neutralize rmTARC activity is dependent on the cytokine concentration, cell type, growth conditions and the type of activity studied. To provide a guideline, R&D Systems has determined the neutralization dose for this antibody under a specific set of conditions. The **Neutralization Dose₅₀ (ND₅₀)** for this antibody is defined as that concentration of antibody required to yield one-half maximal inhibition of the cytokine activity on a responsive cell line, when that cytokine is present at a concentration just high enough to elicit a maximum response.

The ND₅₀ for this lot of anti-mouse TARC antibody was determined to be approximately 0.2 - 0.6 µg/mL in the presence of 0.02 µg/mL of rmTARC, using BaF/3 cells transfected with hCCR4. The specific conditions are described in the figure legends.

Additional Applications

For direct ELISAs, the antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse TARC. The detection limit for rmTARC is approximately 0.6 ng/well.

For western blot analysis, the antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse TARC. The detection limit for rmTARC is approximately 5 ng/lane under non-reducing and reducing conditions.

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

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