



Anti-mouse ALCAM Antibody

ORDERING INFORMATION

Catalog Number: AF1172

Lot Number: IQV01

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse ALCAM

Immunogen: NS0-derived rmALCAM extracellular domain

Ig Type: mouse ALCAM extracellular domain specific goat IgG

Applications: Direct ELISA
Western blot
Flow Cytometry
Immunohistochemistry

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant mouse Activated Leukocyte Cell Adhesion Molecule (rmALCAM) extracellular domain. Mouse ALCAM specific IgG was purified by mouse ALCAM affinity chromatography.

Formulation

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

Endotoxin Level

< 0.1 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 recognize mouse ALCAM in direct ELISAs and western blots.

Applications

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse ALCAM. The detection limit for rmALCAM is approximately 0.05 ng/well. In this format, this antibody shows approximately 40% cross-reactivity with rhALCAM and less than 10% cross-reactivity with rhBCAM, rmOCAM and rmMAdCAM-1.

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse ALCAM. The detection limit for rmALCAM is approximately 1 ng/lane under non-reducing and reducing conditions.

Flow Cytometry - Dilute this antibody to 10 µg/mL and add 10 µL of this solution to 1 - 5 x 10⁵ cells in a total reaction volume not exceeding 200 µL. The binding of unlabeled primary antibodies may be visualized by adding 10 µL of a 25 µg/mL stock solution of a secondary developing reagent conjugated to a fluorochrome.

Immunohistochemistry - This antibody will detect ALCAM in cells and tissues. The working dilution is 2 - 15 µg/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissue Staining Kits (CTS Series).

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

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