

ORDERING INFORMATION

Catalog Number: AF2654

Lot Number: VFT01

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse CXADR extracellular domain

Immunogen: NS0-derived rmCXADR extracellular domain

Ig Type: goat IgG

Applications: Western blot
Immunohistochemistry
Direct ELISA

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant mouse Coxsackie virus and Adenovirus Receptor (rmCXADR) extracellular domain. Mouse CXADR specific IgG was purified by mouse CXADR affinity chromatography. CXADR, also known as CAR, is a 46 kDa type I transmembrane glycoprotein belonging to the Ig superfamily. It is a component of the epithelial apical junction complex and plays a key role in tight junction integrity. By alternative splicing, three isoforms (2 type I membrane proteins that differ in their cytoplasmic domain and a secreted form) exist. The extracellular domain of mouse CXADR shares 97% and 90% aa sequence identity with the corresponding regions of rat and human CXADR, respectively.

Formulation

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

Reconstitution

Reconstitute with sterile PBS. If 0.5 mL of PBS is used, the antibody concentration will be 0.2 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 CXADR in the applications listed below. In direct ELISAs and western blots, this antibody shows approximately 35% cross-reactivity with rhCXADR.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse CXADR. The detection limit for rmCXADR is approximately 2 ng/lane and 0.5 ng/lane under non-reducing and reducing conditions, respectively.

Immunohistochemistry - This antibody will detect CXADR in cells and tissues. The working dilution is 2 - 5 µg/mL. For chromogenic detection of labeling, use R&D Systems' Cell and Tissue Staining Kits (CTS Series).

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse CXADR. The detection limit for rmCXADR is approximately 0.2 ng/well.

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