



Anti-mouse A33 Antibody

ORDERING INFORMATION

Catalog Number: AF2756

Lot Number: VIM01

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: mouse A33 extracellular domain

Immunogen: NS0-derived rmA33 extracellular domain

Ig Type: goat IgG

Applications: Western blot
Immunohistochemistry
Direct ELISA

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant mouse A33 (rmA33). Mouse A33 specific IgG was purified by mouse A33 affinity chromatography. Mouse A33, also known as Gpa33, is a 48 kDa type I transmembrane protein belonging to the CTX (cortical thymocyte marker in *Xenopus*) family of cell-adhesion molecules within the immunoglobulin superfamily. Other family members include CXADR, ESAM, BT-IgSF, CD2 and JAM-A-C. The extracellular region of A33 contains a V-type and a C2-type Ig-like domain. A33 is believed to be involved in cell-cell adhesion, either between epithelium or between epithelium and T cells. The extracellular domain of mouse A33 shares 87% and 71% amino acid sequence identity with the extracellular region of rat and human A33, 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 A33 in the applications listed below. In direct ELISAs and western blots, this antibody shows approximately 15% cross-reactivity with rhA33.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse A33. The detection limit for rmA33 is approximately 1 ng/lane and 5 ng/lane under non-reducing and reducing conditions, respectively.

Immunohistochemistry - This antibody will detect A33 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 A33. The detection limit for rmA33 is approximately 0.5 ng/well.

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