



Biotinylated Anti-human A33 Antibody

ORDERING INFORMATION

Catalog Number: BAF3080

Lot Number: WLR01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: human A33 extracellular domain

Immunogen: NS0-derived rhA33 extracellular domain

Ig Type: goat IgG

Applications: Western blot
Flow Cytometry

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant human A33 (rhA33; aa 22 - 235; Accession # Q99795). Human A33 specific IgG was purified by human A33 affinity chromatography and then biotinylated. Human A33, also known as GPA33, is a 43 kDa type I transmembrane glycoprotein that belongs 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 domain (ECD) of human A33 is 214 amino acids (aa) in length and contains one V-type and one C2-type Ig-like domain. This ECD is 80%, 74% and 71% aa identical to canine, bovine and mouse A33 ECD, respectively. A33 is likely to be involved in cell-cell adhesion between epithelial cells.

Formulation

Lyophilized from a 0.2 µm filtered solution in phosphate-buffered saline (PBS) containing 50 µg of bovine serum albumin (BSA) per 1 µg of antibody.

Reconstitution

Reconstitute with sterile Tris-buffered saline pH 7.3 (20 mM Trizma base, 150 mM NaCl) containing 0.1% BSA. If 1 mL of buffer is used, the antibody concentration will be 50 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

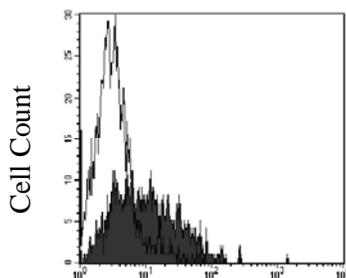
This antibody has been selected for use as a detection antibody in the applications listed below.

Applications

Western Blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human A33. The detection limit for rhA33 is approximately 2 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 10% cross-reactivity with rmA33.

Flow Cytometry - This antibody was tested in flow cytometry using HT-29 cells. Dilute this antibody to 50 µg/mL and add 10 µL of the diluted solution to 1-2.5 x 10⁵ cells in a total reaction volume not exceeding 200 µL. The binding of biotinylated antibodies may be visualized by adding a secondary developing reagent such as streptavidin conjugated to a fluorochrome.

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



A33

HT-29 cells were stained with biotinylated anti-A33 (R&D Systems, Cat. # BAF3080, filled histogram) or control antibody (R&D Systems, Cat. # BAF108, open histogram), followed by PE-conjugated streptavidin (R&D Systems, Cat. # F0040).

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