



Anti-human Galectin-3 Antibody

ORDERING INFORMATION

Catalog Number: AF1154

Lot Number: WZE01

Size: 100 µg

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

Storage: -20° C

Reconstitution: sterile PBS

Specificity: human Galectin-3

Immunogen: *E. coli*-derived rhGalectin-3

Ig Type: goat IgG

Applications: Western blot
Immunohistochemistry
Flow cytometry
Direct ELISA

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant human Galectin-3 (rhGalectin-3). Human Galectin-3 specific IgG was purified by human Galectin-3 affinity chromatography.

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 human Galectin-3 in the applications listed below. In direct ELISAs and western blots, this antibody shows approximately 50% cross-reactivity with rmGalectin-3 and less than 1% cross-reactivity with rhGalectin-1, -2, -4, -7 and -8.

Applications

Western blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect human Galectin-3. The detection limit for rhGalectin-3 is approximately 2 ng/lane under non-reducing and reducing conditions.

Immunohistochemistry - This antibody will detect Galectin-3 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).

Flow Cytometry - This antibody has been tested on PBMCs for use in flow cytometry. 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 unlabeled antibodies may be visualized by adding 10 µL of a 25 µg/mL stock solution of a secondary developing reagent such as anti-goat IgG conjugated to a fluorochrome.

Direct ELISA - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect human Galectin-3. The detection limit for rhGalectin-3 is approximately 1 ng/well.

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