Biotinylated Anti-human DEC-205/CD205 Antibody

ORDERING INFORMATION

Catalog Number: BAF2047

Lot Number: KTS01

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 DEC-205

Immunogen: *E. coli*-derived rhDEC-205 (aa 216 - 501)

Ig Type: goat IgG

Application: Western blot

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant human DEC-205 (rhDEC-205; aa 216 - 501). Human DEC-205 specific IgG was purified by human DEC-205 affinity chromatography and then biotinylated. DEC-205, also known as CD205 and lymphocyte antigen 75 (Ly 75), is a type I transmembrane protein that is primarily expressed on dendritic cells and thymic epithelial cells. The extracellular region of DEC205 contains ten C-type lectin-like domains, a fibronectin type II domain and a ricin B-type lectin domain. DEC-205 functions as an endocytic receptor for antigens. The recombinant protein used to generate the anti-human DEC-205 antibody contains the first two C-type lectin domains.

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 human DEC-205 western blots.

Application

Western Blot - This antibody can be used at 0.1 - 0.2 μg/mL with the appropriate secondary reagents to detect human DEC-205. The detection limit for rhDEC-205 is approximately 2 ng/lane under non-reducing and reducing conditions.

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

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