



Biotinylated Anti-human FoxP3 Antibody

ORDERING INFORMATION

Catalog Number: BAF3240

Lot Number: XGY01

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 FoxP3

Immunogen: *E. coli*-derived rhFoxP3 isoform 1 (aa 105 - 200)

Ig Type: goat IgG

Application: Western blot

Preparation

Produced in goats immunized with purified, *E. coli*-derived, recombinant human Forkhead box P3 isoform 1 (rhFoxP3; aa 105 - 200; Accession # Q9BZS1). Human FoxP3 specific IgG was purified by human FoxP3 affinity chromatography and then biotinylated. Human FOXP3 is a 47 kDa member of the P subclass of the FOX (forkhead box) family of transcription factors. It contains a Leu-rich repeat, a C2H2 zinc finger region, and a C-terminal FKH (fork head), DNA-binding domain. Three isoforms for FoxP3 have been reported. All three isoforms share the sequence used as the immunogen. FOXP3 directly associates with NFAT and NFκB, suppressing their activity in CD4⁺ T cells. In human, FOXP3 is found in CD4⁺, CD8⁺ and CD4⁺CD25⁺ T cells. Over the region used for immunization of the amino acid sequence, mouse FOXP3 is 83% to 88% identical to rat, human, canine and bovine FOXP3.

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 FoxP3 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 FoxP3. The detection limit for rhFoxP3 is approximately 2 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 5% cross-reactivity with rhFoxD3.

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