



Biotinylated Anti-mouse BTLA Antibody

ORDERING INFORMATION

Catalog Number: BAF3007

Lot Number: WHF01

Size: 50 µg

Formulation: 0.2 µm filtered solution in PBS with BSA

Storage: -20° C

Reconstitution: sterile 0.1% BSA in TBS

Specificity: mouse BTLA extracellular domain

Immunogen: NS0-derived rmBTLA extracellular domain

Ig Type: goat IgG

Application: Western blot

Preparation

Produced in goats immunized with purified, NS0-derived, recombinant mouse B and T Lymphocyte Attenuator (rmBTLA; aa 30 - 176; Accession # NP_808252) extracellular domain containing P41E, T45N, T47K, Q52H, R55W, Q63E, and C85W substitutions found in strain 129/SvEv. Mouse BTLA specific IgG was purified by mouse BTLA affinity chromatography and then biotinylated. Mouse BTLA is a 70kDa type I transmembrane glycoprotein that belongs to the CD28 family of T cell costimulatory molecules. The extracellular domain (ECD) of this Ig superfamily protein contains one V-type Ig-like domain, which interacts with the TNF superfamily member 14, also known as HVEM (herpesvirus entry mediator). At least three splice variants, including one that lacks the Ig-like domain, exist. Among mice strains, considerable allelic differences in the extracellular domains, varying by as many as ten amino acid residues are known. The amino acid sequence of the ECD of C57B46 BTLA is 51% and 77% identical to that of human and rat BTLA, respectively.

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 mouse BTLA western blots.

Application

Western Blot - This antibody can be used at 0.1 - 0.2 µg/mL with the appropriate secondary reagents to detect mouse BTLA. The detection limit for rmBTLA is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows less than 1% cross-reactivity with rhBTLA.

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