



Biotinylated Anti-mouse BLAME/SLAMF8 Antibody

ORDERING INFORMATION

Catalog Number: BAF4156

Lot Number: ZLN01

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 BLAME extracellular domain

Immunogen: NS0-derived rmBLAME extracellular domain

Ig Type: sheep IgG

Application: Western blot

Background

BLAME (B-lymphocyte activator macrophage expressed), also known as SLAM family member 8, is a type I transmembrane protein that belongs to the CD2 subset of the Ig superfamily cell receptors. The 258 amino acid (aa) mature mouse BLAME contains a 211 aa extracellular domain (ECD) with an Ig V- and a C2-like domain, and a 26 aa cytoplasmic tail that lacks signaling motifs. BLAME is expressed by activated monocytes and dendritic cells. Although the function of BLAME is not known, it is likely involved in homotypic binding or heterotypic interactions with other CD2 subset members. Over the ECD region used as immunogen, mouse BLAME shares 95% and 78% aa identity with rat and human BLAME, respectively.

Preparation

Produced in sheep immunized with purified, NS0-derived, recombinant mouse BLAME extracellular domain (rmBLAME; aa 21 - 231; Accession # Q9D362). Mouse BLAME specific IgG was purified by mouse BLAME affinity chromatography and then biotinylated.

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 BLAME 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 BLAME. The detection limit for rmBLAME is approximately 5 ng/lane under non-reducing and reducing conditions. In this format, this antibody shows approximately 40% cross-reactivity with rhBLAME.

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