Human BLAME/SLAMF8 Antibody

Antigen Affinity-purified Polyclonal Goat IgG
Catalog Number: AF1907

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human BLAME/SLAMF8 in direct ELISAs and Western blots. In direct ELISAs and Western blots, less than 1% cross-reactivity with recombinant human NTB-A/SLAMF6 is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant human BLAME/SLAMF8 Ala23-Asp233 Accession # Q9P0V8
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 μm filtered solution in PBS.

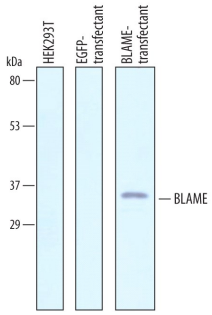
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	0.1 µg/mL	See Below
Flow Cytometry	2.5 µg/10^6 cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

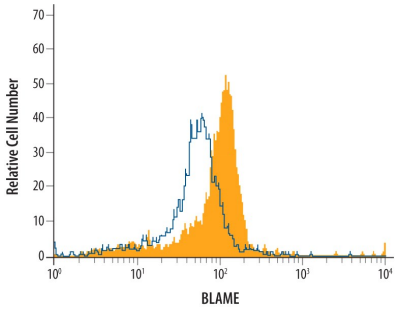
DATA

Western Blot



Detection of Human BLAME/SLAMF8 by Western Blot. Western blot shows lysates of HEK293T human embryonic kidney cell line either mock transfected, transfected with EGFP, or transfected with human BLAME. PVDF membrane was probed with 0.1 µg/mL of Goat Anti-Human BLAME/SLAMF8 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1907) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF019). A specific band was detected for BLAME/SLAMF8 at approximately 32 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

Flow Cytometry



Detection of BLAME/SLAMF8 in U937 Human Cell Line by Flow Cytometry. U937 human histiocytic lymphoma cell line were treated for 18 hours with 20 ng/mL Recombinant Human IFN-γ (Catalog # 285-IF) then stained with Human BLAME/SLAMF8 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF1907, filled histogram) or control antibody (Catalog # AB-108-C, open histogram), followed by Phycoerythrin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # F0107).

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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 immunoglobulin superfamily cell receptors. CD2 family proteins function as adhesion molecules and modulators of immune responses (1, 2). Mature human BLAME consists of a 211 amino acid (aa) ECD that contains two Ig V-like domains, a 21 aa transmembrane segment, and a 31 aa cytoplasmic tail that lacks recognizable signaling motifs (3). Within the ECD, human BLAME shares 19%-26% aa sequence identity with human 2B4, CD2, CD2F-10, CD48, CD58, CD84, CD229, CRACC, NTB-A, and SLAM. It shares 79% aa sequence identity with the ECD of mouse BLAME. BLAME is expressed on dendritic cells and IFN-γ stimulated monocytes. Overexpression of BLAME in bone marrow cells leads to an increase in the peritoneal B1b population of B lymphocytes (3).

References:

1. McNerney, M.E. and V. Kumar (2006) Curr. Top. Microbiol. Immunol. **298**:91.
2. Veillette, A. (2006) Nat. Rev. Immunol. **6**:56.
3. Kingsbury, G.A. *et al.* (2001) J. Immunol. **166**:5675.

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