# Human BLAME/SLAMF8 Antibody

Monoclonal Mouse $IgG_{2A}$ Clone # 250020

Catalog Number: MAB19073

## DESCRIPTION

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|---|---|
| **Species Reactivity** | Human |
| **Specificity** | Detects recombinant human BLAME in ELISAs. |
| **Source** | Monoclonal Mouse $IgG_{2A}$ Clone # 250020 |
| **Purification** | Protein A or G purified from hybridoma culture supernatant |
| **Immunogen** | Mouse myeloma cell line NS0-derived recombinant human BLAME/SLAMF8<br>Ala23-Asp233<br>Accession # Q9P0V8 |
| **Formulation** | Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details.<br>*Small pack size (-SP) is supplied either lyophilized or 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.*

| ***Human BLAME/SLAMF8 Sandwich Immunoassay*** | | **Reagent** |
|---|---|---|
| **ELISA Capture** | 2-8 µg/mL | Human BLAME/SLAMF8 Antibody (Catalog # MAB19073) |
| **ELISA Detection** | 0.5-2.0 µg/mL | Human BLAME/SLAMF8 Biotinylated Antibody (Catalog # BAM19074) |
| **Standard** | | Recombinant Human BLAME/SLAMF8 (Catalog # 1907-BL) |

## PREPARATION AND STORAGE

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| **Reconstitution** | Reconstitute at 0.5 mg/mL in sterile PBS. |
| **Shipping** | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.<br>*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.**<br>● 12 months from date of receipt, -20 to -70 °C as supplied.<br>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.<br>● 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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