

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human BLAME/SLAMF8 in ELISAs.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 250008
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human BLAME/SLAMF8 Ala23-Asp233 Accession # Q9P0V8
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

## 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
<b>ELISA Capture</b>	2-8 µg/mL	Human BLAME/SLAMF8 Antibody (Catalog # <a href="#">MAB19073</a> )
<b>ELISA Detection</b>	0.5-2.0 µg/mL	Human BLAME/SLAMF8 Biotinylated Antibody (Catalog # <a href="#">BAM19074</a> )
<b>Standard</b>		Recombinant Human BLAME/SLAMF8 (Catalog # <a href="#">1907-BL</a> )

## PREPARATION AND STORAGE

<b>Reconstitution</b>	Reconstitute at 0.5 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<p><b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b></p> <ul style="list-style-type: none"> <li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li> <li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li> <li>● 6 months, -20 to -70 °C under sterile conditions after reconstitution.</li> </ul>

## 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.