

#### DESCRIPTION

<b>Species Reactivity</b>	Mouse
<b>Specificity</b>	Detects mouse BST-2/Tetherin in flow cytometry.
<b>Source</b>	Monoclonal Rat IgG <sub>2A</sub> Clone # 44E9R
<b>Purification</b>	Protein A or G purified from cell culture supernatant
<b>Immunogen</b>	Recombinant extracellular domain of CD317
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### 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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Mouse bone marrow cells

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### BACKGROUND

BST-2, also known as Tetherin or PDCA1 and designated CD317, is a 30-35 kDa interferon-inducible protein that shows an unusual topology. The N-terminus is cytoplasmic, followed by a transmembrane segment, an extracellular loop, and a C-terminal GPI-linkage. BST-2 is expressed on bone marrow stromal cells and is upregulated in breast cancer and astrocytoma. It binds to ILT7 on plasmacytoid dendritic cells and inhibits proinflammatory TLR7 and TLR9 signaling. BST-2 inhibits the release of Kaposi sarcoma virus, HIV-1, and Lassa virus from infected cells, but this function is counteracted by viral proteins which directly bind and trigger the degradation of BST-2.

#### PRODUCT SPECIFIC NOTICES

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