

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse BST-2/Tetherin in flow cytometry.
Source	Monoclonal Rat IgG _{2A} Clone # 44E9R
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Recombinant extracellular domain of CD317
Conjugate	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 nm
Formulation	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.

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

PREPARATION AND STORAGE

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

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.

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