

## mouse CD45 Rat mAb

Catalog Number: bsm-30251A

Target Protein: mouse CD45

Form: Liquid

Host: Rat

Clonality: Monoclonal

Clone No.: 8G5

Isotype: Rat IgG2b, k

Applications: Flow-Cyt

Reactivity: (predicted:Mouse)

Predicted MW: 143 kDa

Detected MW: 220 kDa

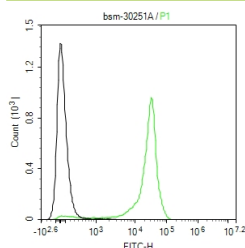
Purification: affinity purified by Protein G

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

**Background:** The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus belongs to receptor type PTP. This gene is specifically expressed in hematopoietic cells. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling

### VALIDATION IMAGES



The Mouse spleen cells were incubated in 5%BSA to block non-specific protein-protein interactions (30 min at r.t.). Primary Antibody (green): Rat Anti-CD45 antibody (bsm-30251A): 1  $\mu\text{g}/10^6$  cells; Secondary Antibody : Goat anti-Rat IgG-FITC: 1  $\mu\text{g}/\text{test}$ . Blank control (black): PBS. Acquisition of 20,000 events was performed.