

**bsm-33052M****[ Primary Antibody ]****CD45 Mouse mAb****BioSS**  
**ANTIBODIES**

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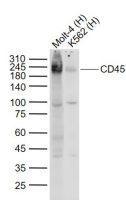
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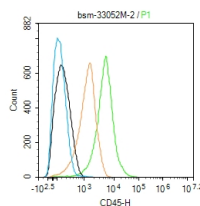
400-901-9800

**DATASHEET**

<b>Host:</b> Mouse	<b>Isotype:</b> IgG1	<b>Applications:</b> WB (1:500-1000) <b>Flow-Cyt</b> (1:50)  <b>Reactivity:</b> Human  <b>Predicted MW.:</b> 143 kDa  <b>Subcellular Location:</b> Cell membrane
<b>Clonality:</b> Monoclonal	<b>CloneNo.:</b> 14A9	
<b>GeneID:</b> 5788	<b>SWISS:</b> P08575	
<b>Target:</b> CD45		
<b>Purification:</b> affinity purified by Protein G		
<b>Concentration:</b> 1mg/ml		
<b>Storage:</b> Size : 50ul/100ul/200ul 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Size : 200ug (PBS only) 0.01M PBS Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.		
<b>Background:</b> 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**

Sample: Lane 1: Molt-4 (Human) Cell Lysate at 30 ug  
 Lane 2: K562 (Human) Cell Lysate at 30 ug  
 Primary: Anti-CD45 (bsm-33052M) at 1/1000  
 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 220 kD Observed band size: 220 kD



Blank control:U937. Primary Antibody (green line): Mouse Anti-CD45 antibody (bsm-33052M) Dilution: 1:50; Secondary Antibody : Goat anti-mouse IgG-FITC Dilution: 0.5ug/Test. Protocol The cells were incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

**SELECTED CITATIONS**

- **[IF=6.799]** Smriti Arora. et al. Antibody mediated cotton-archetypal substrate for enumeration of circulating tumor cells and chemotherapy outcome in 3D tumors. Lab Chip. 2022 Feb;; IHC ;Human. 35266489
- **[IF=6.1]** Xue Lulu. et al. Transplantation of human placental chorionic plate-derived mesenchymal stem cells for repair

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

of neurological damage in neonatal hypoxic-ischemic encephalopathy. NEURAL REGEN RES. 2023 Dec;;10.4103/1673 IF  
;Human. 10.4103/1673-5374.390952