

bsm-30149A**[Primary Antibody]****mouse CD3 Rat mAb****BioSS**
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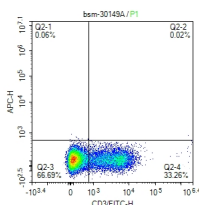
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DATASHEET**Host:** Rat**Isotype:** Rat IgG2b, k**Applications:** Flow-Cyt (1ug/Test)**Clonality:** Monoclonal**CloneNo.:** 2B5**Reactivity:** (predicted: Mouse)**Target:** mouse CD3**Purification:** affinity purified by Protein G**Storage:** 0.01M 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.**Predicted MW.:** 20 kDa

Background: CD3ε molecule, epsilon is also known as CD3E, is a T-cell surface single-pass type I membrane glycoprotein. CD3E contains 1 Ig-like (immunoglobulin-like) domain and 1 ITAM domain. CD3E, together with CD3-gamma, CD3-delta and CD3-zeta, and the T-cell receptor alpha/beta and gamma/delta heterodimers, forms the T cell receptor-CD3 complex. This complex plays an important role in coupling antigen recognition to several intracellular signal-transduction pathways. The genes encoding the epsilon, gamma and delta polypeptides are located in the same cluster on chromosome 11. The epsilon polypeptide plays an essential role in T-cell development. CD3E plays an essential role in T-cell development, and defects in CD3E gene cause severe immunodeficiency. CD3E gene has also been linked to a susceptibility to type I diabetes in women. CD3E has been shown to interact with TOP2B, CD3EAP and NCK2.

Subcellular Location: Cell membrane**VALIDATION IMAGES**

scatter diagram showing mouse spleen cells stained with bsm-30149A. The cells were incubated with the antibody (bsm-30149A, 1ug/Test) for 30 min at 22°C. The secondary antibody used for 40 min at room temperature. Acquisition of >20,000 events was performed.