

bsm-30092M**[Primary Antibody]****human CD3 Mouse mAb****BioSS**
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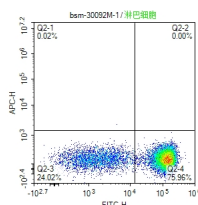
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— DATASHEET —**Host:** Mouse**Isotype:** Mouse IgG2a, k**Clonality:** Monoclonal**CloneNo.:** HIT3a**GeneID:** 916**SWISS:** P07766**Target:** human CD3**Purification:** affinity purified by Protein G**Storage:** 0.01M PBS (pH7.4).

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

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.

Applications: Flow-Cyt (1ug/Test)**Reactivity:** Human**Predicted MW.:** 20 kDa**Observed MW.:** 20 kDa**Subcellular Location:** Cell membrane**— VALIDATION IMAGES —**

scatter diagram showing peripheral blood lymphocytes stained with CD3. The cells were incubated with the antibody (bsm-30092M, 1 µg/Test) 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=9.918]** Daijun Zhou. et al. An injectable miR181a-IF16 nanoparticles promote high-quality healing of radiation-induced skin injury. MATER TODAY ADV. 2022 Aug;15:100267 FCM ;Human. 10.1016/j.mtadv.2022.100267