bsm-30092M **[Primary Antibody]**

human CD3 Mouse mAb

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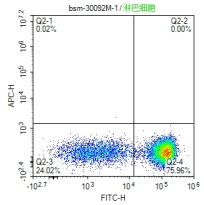
DATASHEET

Host: Mouse
Isotype: Mouse IgG2a, k
Clonality: Monoclonal
CloneNo.: HIT3b
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: CD3e 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
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-IFI6 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