Datasheet for ABIN6941029

anti-CD3 epsilon antibody

Overview

Quantity: 100 μg
Target: CD3 epsilon (CD3E)
Reactivity: Human, Monkey
Host: Mouse
Clonality: Monoclonal
Conjugate: This CD3 epsilon antibody is un-conjugated
Application: Flow Cytometry (FACS), Immunofluorescence (IF), Activation (Act), Proliferation Assay (ProA)

Product Details

Immunogen: Stimulated human leukocytes
Clone: CRIS-7
Isotype: IgG2a kappa
Specificity: Recognizes the epsilon-chain of CD3, which consists of five different polypeptide chains (designated as gamma, delta, epsilon, zeta, and eta) with MW ranging from 16-28 kDa. The CD3 complex is closely associated at the lymphocyte cell surface with the T cell antigen receptor (TCR). Reportedly, CD3 complex is involved in signal transduction to the T cell interior following antigen recognition. The CD3 antigen is first detectable in early thymocytes and probably represents one of the earliest signs of commitment to the T cell lineage. In cortical thymocytes, CD3 is predominantly intra-cytoplasmic. However, in medullary thymocytes, it appears on the T cell surface. CD3 antigen is a highly specific marker for T cells, and is present in majority of T cell neoplasms.
Target Details

Target: CD3 epsilon (CD3E)

Alternative Name: CD3E (CD3E Products)

Molecular Weight: 20kDa

Gene ID: 916

UniProt: P07766

Pathways: TCR Signaling, CXCR4-mediated Signaling Events, Ubiquitin Proteasome Pathway

Application Details

Application Notes: Positive Control: Jurkat cells. Tonsil and lymph node.
Known Application: Induce T cell activation and proliferation (Order Ab without Azide), Flow Cytometry (1-2 μg/million cells), Immunofluorescence (1-2 μg/mL), Optimal dilution for a specific application should be determined.

Restrictions: For Research Use only

Handling

Concentration: 200 μg/mL

Buffer: 10 mM PBS with 0.05 % BSA & 0.05 % azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C,-80 °C

Storage Comment: Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Expiry Date: 24 months
**Flow Cytometry**

**Image 1.** Flow cytometry analysis of lymphocyte-gated PBMCs unstained (gray) or stained with CF488A-labeled CD3 mouse monoclonal antibody (CRIS-7) (green)

**Flow Cytometry**

**Image 2.** Flow Cytometric Analysis of Jurkat cells. CD3e Mouse Monoclonal Antibody (CRIS-7) followed by Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

**Immunofluorescence**

**Image 3.** Immunofluorescence Analysis of Jurkat cells labeling CD3e with CD3e Mouse Monoclonal Antibody (CRIS-7) followed by Goat anti-Mouse IgG-CF488 (Green). The nuclear counterstain is Reddot (Red).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6941029.