

Datasheet for ABIN6240811

## anti-CD3 epsilon antibody (Activation Site) (FITC)



[Go to Product page](#)

### 2 Images

#### Overview

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Quantity:            | 100 µg                                          |
| Target:              | CD3 epsilon (CD3E)                              |
| Binding Specificity: | Activation Site                                 |
| Reactivity:          | Human, Mouse                                    |
| Host:                | Mouse                                           |
| Clonality:           | Monoclonal                                      |
| Conjugate:           | This CD3 epsilon antibody is conjugated to FITC |
| Application:         | Intracellular Flow Cytometry (ICFC)             |

#### Product Details

|                             |                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:                    | Anti-CD3 epsilon (activation epitope) FITC                                                                                                                                                                                                                                                                                                                     |
| Immunogen:                  | Purified human CD3 proteins isolated from thymus                                                                                                                                                                                                                                                                                                               |
| Clone:                      | APA1-1                                                                                                                                                                                                                                                                                                                                                         |
| Isotype:                    | IgG1                                                                                                                                                                                                                                                                                                                                                           |
| Specificity:                | The mouse monoclonal antibody APA1/1 recognizes an activation-dependent intracellular epitope of CD3 epsilon. Exposure of the epitope precedes CD3 phosphorylation and recruitment and activation of ZAP70, which initiates the signaling cascade produced by T-cell activation. APA1/1 provides the earliest known marker for TCR-mediated T cell activation. |
| Cross-Reactivity (Details): | Human, Mouse                                                                                                                                                                                                                                                                                                                                                   |
| Purification:               | Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum                                                                                                                                                                                                                                                                           |

## Product Details

conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | CD3 epsilon (CD3E)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Alternative Name: | CD3 epsilon ( <a href="#">CD3E Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Background:       | CD3 antigen, epsilon polypeptide,CD3 complex is crucial in transducing antigen-recognition signals into the cytoplasm of T cells and in regulating the cell surface expression of the TCR complex. T cell activation through the antigen receptor (TCR) involves the cytoplasmic tails of the CD3 subunits CD3 gamma, CD3 delta, CD3 epsilon and CD3 zeta. These CD3 subunits are structurally related members of the immunoglobulins super family encoded by closely linked genes on human chromosome 11. The CD3 components have long cytoplasmic tails that associate with cytoplasmic signal transduction molecules. This association is mediated at least in part by a double tyrosine-based motif present in a single copy in the CD3 subunits. CD3 may play a role in TCR-induced growth arrest, cell survival and proliferation.,CD3 epsilon chain, T3E, IMD18 |
| Gene ID:          | 916                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| UniProt:          | <a href="#">P07766</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Pathways:         | <a href="#">TCR Signaling</a> , <a href="#">CXCR4-mediated Signaling Events</a> , <a href="#">Ubiquitin Proteasome Pathway</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Application Details

|                    |                                                                        |
|--------------------|------------------------------------------------------------------------|
| Application Notes: | Flow cytometry: Recommended dilution: 1 µg/mL. Intracellular staining. |
| Restrictions:      | For Research Use only                                                  |

## Handling

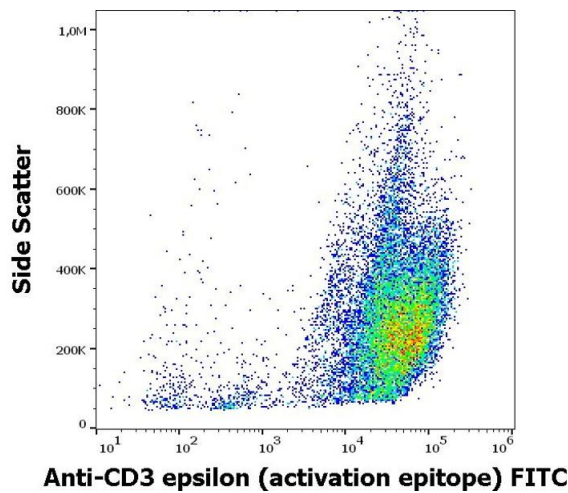
|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Concentration:     | 0.1 mg/mL                                                                                                              |
| Buffer:            | Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium 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. |
| Handling Advice:   | The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum                               |

conditions. The reagent is free of unconjugated FITC.

Storage: 4 °C

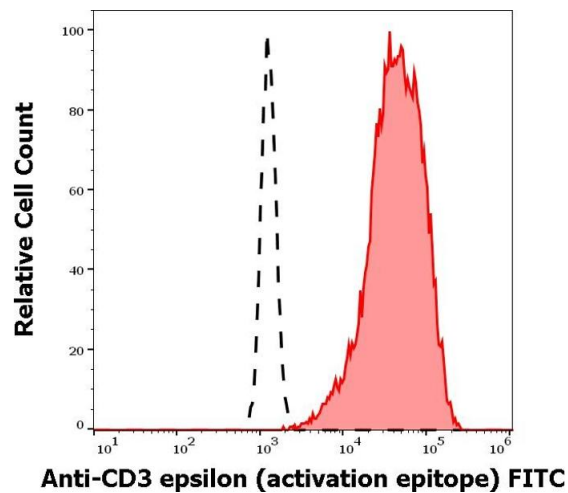
Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Images



**Flow Cytometry**

**Image 1.** Flow cytometry intracellular staining pattern of Jurkat cell suspension using anti-human CD3 activation epitope (APA1/1) FITC antibody (concentration in sample 5 µg/mL).



**Flow Cytometry**

**Image 2.** Separation of Jurkat cells (red-filled) from human neutrophil granulocytes (black-dashed) in flow cytometry analysis (intracellular staining) stained using anti-human CD3 activation epitope (APA1/1) FITC antibody (concentration in sample 5 µg/mL).