

Datasheet for ABIN5539697

**anti-CD3 epsilon antibody (Internal Region)**[Go to Product page](#)**1** Image

## Overview

|                      |                                            |
|----------------------|--------------------------------------------|
| Quantity:            | 100 µg                                     |
| Target:              | CD3 epsilon (CD3E)                         |
| Binding Specificity: | Internal Region                            |
| Reactivity:          | Human                                      |
| Host:                | Goat                                       |
| Clonality:           | Polyclonal                                 |
| Conjugate:           | This CD3 epsilon antibody is un-conjugated |
| Application:         | Western Blotting (WB), ELISA               |

## Product Details

|                   |                                                                                                                                       |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:          | CD3E (cytoplasmic)                                                                                                                    |
| Sequence:         | RKGQRDLYSGLNQR                                                                                                                        |
| Isotype:          | IgG                                                                                                                                   |
| Specificity:      | This antibody is designed to recognize the cytoplasmic domain (aa153-207) of the protein.                                             |
| Cross-Reactivity: | Human, Pig, Rat                                                                                                                       |
| Purification:     | Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. |
| Grade:            | Verified                                                                                                                              |

## Target Details

|                   |                                                                                                                                                                                                                                                                 |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | CD3 epsilon (CD3E)                                                                                                                                                                                                                                              |
| Alternative Name: | CD3E                                                                                                                                                                                                                                                            |
| Background:       | CD3E, CD3e molecule, epsilon (CD3-TCR complex), IMD18, T3E, TCRE, CD3-epsilon, CD3e antigen, epsilon polypeptide (TiT3 complex), T-cell antigen receptor complex, epsilon subunit of T3, T-cell surface antigen T3/Leu-4 epsilon chain, T-cell surface glycopro |
| Gene ID:          | 916, 315609                                                                                                                                                                                                                                                     |
| NCBI Accession:   | <a href="#">NP_000724</a>                                                                                                                                                                                                                                       |
| Pathways:         | <a href="#">TCR Signaling</a> , <a href="#">CXCR4-mediated Signaling Events</a> , <a href="#">Ubiquitin Proteasome Pathway</a>                                                                                                                                  |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                                                    |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | Western Blot: Approx 22 kDa band observed in lysates of cell lines Jurkat and Molt4 (calculated MW of 23.1 kDa according to NP_000724.1). Recommended concentration: 0.1-0.3 µg/mL.<br>Primary incubation was 1 hour. This antibody has been successfully used in WB<br>Peptide ELISA: antibody detection limit dilution 1:128000. |
| Comment:           | <b>Additional validation:</b> This antibody has been successfully used in the following paper: Sikorski et al. (2018) PMID: 30377371.                                                                                                                                                                                              |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                              |

## Handling

|                    |                                                                                                                                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                                         |
| Concentration:     | 0.5 mg/mL                                                                                                                                      |
| Buffer:            | Supplied at 0.5 mg/mL in Tris saline, 0.02 % sodium azide, pH 7.3 with 0.5 % bovine serum albumin.                                             |
| 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:   | Minimize freezing and thawing.                                                                                                                 |
| Storage:           | -20 °C                                                                                                                                         |
| Storage Comment:   | Aliquot and store at -20°C, with minimal freeze/thawing. A working aliquot may be refrigerated at 4°C for a few weeks and still remain viable. |



Western Blotting

**Image 1.** ABIN5539697 (0.1µg/ml) staining of Jurkat (A) and Molt4 (B) lysates (35µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.