

Datasheet for ABIN7171387

**anti-CD3 epsilon antibody (AA 23-207) (Biotin)**[Go to Product page](#)

## Overview

|                      |                                                   |
|----------------------|---------------------------------------------------|
| Quantity:            | 100 µg                                            |
| Target:              | CD3 epsilon (CD3E)                                |
| Binding Specificity: | AA 23-207                                         |
| Reactivity:          | Human                                             |
| Host:                | Rabbit                                            |
| Clonality:           | Polyclonal                                        |
| Conjugate:           | This CD3 epsilon antibody is conjugated to Biotin |
| Application:         | ELISA                                             |

## Product Details

|                   |                                                                                    |
|-------------------|------------------------------------------------------------------------------------|
| Immunogen:        | Recombinant Human T-cell surface glycoprotein CD3 epsilon chain protein (23-207AA) |
| Isotype:          | IgG                                                                                |
| Cross-Reactivity: | Human                                                                              |
| Purification:     | >95%, Protein G purified                                                           |

## Target Details

|                   |                                                                                                                                                                                         |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | CD3 epsilon (CD3E)                                                                                                                                                                      |
| Alternative Name: | CD3E ( <a href="#">CD3E Products</a> )                                                                                                                                                  |
| Background:       | Background: Part of the TCR-CD3 complex present on T-lymphocyte cell surface that plays an essential role in adaptive immune response. When antigen presenting cells (APCs) activate T- |

## Target Details

cell receptor (TCR), TCR-mediated signals are transmitted across the cell membrane by the CD3 chains CD3D, CD3E, CD3G and CD3Z. All CD3 chains contain immunoreceptor tyrosine-based activation motifs (ITAMs) in their cytoplasmic domain. Upon TCR engagement, these motifs become phosphorylated by Src family protein tyrosine kinases LCK and FYN, resulting in the activation of downstream signaling pathways (PubMed:2470098). In addition of this role of signal transduction in T-cell activation, CD3E plays an essential role in correct T-cell development. Initiates the TCR-CD3 complex assembly by forming the two heterodimers CD3D/CD3E and CD3G/CD3E. Participates also in internalization and cell surface down-regulation of TCR-CD3 complexes via endocytosis sequences present in CD3E cytosolic region (PubMed:10384095, PubMed:26507128).

Aliases: CD3 epsilon antibody, CD3e antibody, CD3e antigen antibody, CD3e antigen epsilon polypeptide (TiT3 complex) antibody, CD3E antigen epsilon polypeptide antibody, CD3E antigen, epsilon subunit antibody, CD3e molecule epsilon antibody, CD3e molecule, epsilon (CD3 TCR complex) antibody, CD3e molecule, epsilon (CD3-TCR complex) antibody, CD3E\_HUMAN antibody, IMD18 antibody, T cell antigen receptor complex epsilon subunit of T3 antibody, T cell surface antigen T3/Leu 4 epsilon chain antibody, T cell surface glycoprotein CD3 epsilon chain antibody, T-cell surface antigen T3/Leu-4 epsilon chain antibody, T-cell surface glycoprotein CD3 epsilon chain antibody, T3E antibody, TCRE antibody

|           |                                                                                                                                |
|-----------|--------------------------------------------------------------------------------------------------------------------------------|
| 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

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|--------------------|--------------------------------------------------------------------|
| Application Notes: | Optimal working dilution should be determined by the investigator. |
| Restrictions:      | For Research Use only                                              |

## Handling

|                    |                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                            |
| Buffer:            | Preservative: 0.03 % Proclin 300<br>Constituents: 50 % Glycerol, 0.01M PBS, PH 7.4                                |
| Preservative:      | ProClin                                                                                                           |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |

Handling

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|                  |                                                               |
|------------------|---------------------------------------------------------------|
| Storage:         | -20 °C,-80 °C                                                 |
| Storage Comment: | Upon receipt, store at -20°C or -80°C. Avoid repeated freeze. |