

## Recombinant Mouse CD3E Protein, Fc-tagged

**Cat. No.** CD3E-144M    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Recombinant Mouse CD3E protein with Fc tag was expressed in HEK293.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 189                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Description</b>      | Predicted to enable several functions, including SH3 domain binding activity; identical protein binding activity; and protein heterodimerization activity. Involved in nervous system development and positive regulation of cell adhesion. Acts upstream of or within several processes, including positive regulation of T cell activation; positive regulation of cytokine production; and regulation of signal transduction. Located in several cellular components, including dendritic spine; external side of plasma membrane; and immunological synapse. Part of alpha-beta T cell receptor complex. Is expressed in colon and hemolymphoid system. Human ortholog(s) of this gene implicated in immunodeficiency 18. Orthologous to human CD3E (CD3e molecule). |
| <b>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Molecular Mass</b>   | 36 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>AA Sequence</b>      | MRWNTFWGILCLSLAVGTCQDDAENIEYKVSISGTSVELTCPLDSDENLKWEKNG<br>QELPQKHDKHLVLQDFSEVEDSGYYVCYTPASNKNTLYLKARVCEYCV EVDLTAV<br>AIIIVDICITLGLLMVIYYWSKNRKAKAKPVTRGTGAGSRPRGQNKERPPVPNPDIYE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

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|                         |                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                         | PIRKGQRDLYSGLNQRAV                                                                                                                                                                                                                                                          |
| <b>Purity</b>           | > 98%                                                                                                                                                                                                                                                                       |
| <b>Applications</b>     | WB; ELISA; FACS; FC                                                                                                                                                                                                                                                         |
| <b>Stability</b>        | This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.                                                                      |
| <b>Storage</b>          | At -20 centigrade.                                                                                                                                                                                                                                                          |
| <b>Concentration</b>    | 1 mg/mL                                                                                                                                                                                                                                                                     |
| <b>Storage Buffer</b>   | PBS (pH 7.4-7.5). Sterile-filtered colorless solution.                                                                                                                                                                                                                      |
| <b>Reconstitution</b>   | Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance. |
| <b>GENE INFORMATION</b> |                                                                                                                                                                                                                                                                             |
| <b>Gene Name</b>        | Cd3e CD3 antigen, epsilon polypeptide [ Mus musculus (house mouse) ]                                                                                                                                                                                                        |
| <b>Official Symbol</b>  | CD3E                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>         | CD3E; CD3 antigen, epsilon polypeptide; T-cell surface glycoprotein CD3 epsilon chain; T-cell surface antigen T3/Leu-4 epsilon chain; CD3; T3e; AI504783; CD3epsilon;                                                                                                       |

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|----------------|-----------|
| Gene ID        | 12501     |
| mRNA Refseq    | NM_007648 |
| Protein Refseq | NP_031674 |
| UniProt ID     | P22646    |

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