

## Recombinant Human CD3E&CD3D protein, hFc-Avi-tagged, Biotinylated

**Cat. No.** CD3E & CD3D-378H    **Lot. No.** (See product label)

### SPECIFICATION

|                          |                                                                                                                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>  | Biotinylated Recombinant Human CD3E&CD3D protein(P07766(CD3E)&P04234(CD3D))(Asp23-Asp126(CD3E) & Phe22-Ala105(CD3D)), fused with C-terminal hFc-Avi tag, was expressed in HEK293.                        |
| <b>Species</b>           | Human                                                                                                                                                                                                    |
| <b>Source</b>            | HEK293                                                                                                                                                                                                   |
| <b>ProteinLength</b>     | Asp23-Asp126(CD3E) & Phe22-Ala105(CD3D)                                                                                                                                                                  |
| <b>Tag</b>               | C-hFc-Avi                                                                                                                                                                                                |
| <b>Conjugation/Label</b> | Biotin                                                                                                                                                                                                   |
| <b>Form</b>              | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.                                                                           |
| <b>Bio-activity</b>      | Immobilized Biotinylated Human CD3E&CD3D, hFc Tag at 1µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for OKT3, mFc Tag with the EC50 of 42.1ng/ml determined by ELISA. |
| <b>Molecular Mass</b>    | The protein has a predicted MW of 40 kDa (CD3E) and 35.4 kDa (CD3D). Due to glycosylation, the protein migrates to 48-60 kDa based on Tris-Bis PAGE result.                                              |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                             |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>      | Less than 1EU per µg by the LAL method.                                                                                                                     |
| <b>Purity</b>         | > 95% as determined by Tris-Bis PAGE;> 95% as determined by HPLC                                                                                            |
| <b>Storage</b>        | Reconstituted protein stable at -80°C for 12 months, 4°C for 1 week. Use a manual defrost freezer and avoid repeated freeze-thaw cycles.                    |
| <b>Reconstitution</b> | Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| <b>GeneID 2</b>       | <a href="#">915</a>                                                                                                                                         |
| <b>Conjugation</b>    | Biotin                                                                                                                                                      |

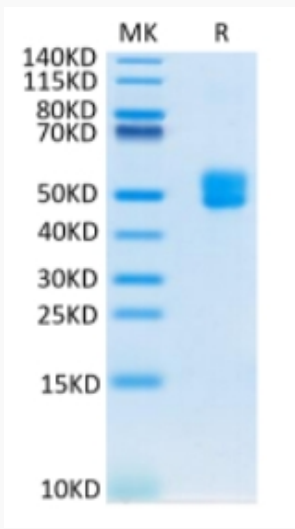
## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                           |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | <a href="#">CD3E CD3e molecule, epsilon (CD3-TCR complex) [ Homo sapiens ]</a>                                                                                                                                                                                                            |
| <b>Official Symbol</b> | <a href="#">CD3E</a>                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>        | CD3E; CD3e molecule, epsilon (CD3-TCR complex); CD3e antigen, epsilon polypeptide (TiT3 complex); T-cell surface glycoprotein CD3 epsilon chain; CD3-epsilon; T-cell surface antigen T3/Leu-4 epsilon chain; T-cell antigen receptor complex, epsilon subunit of T3; T3E; TCRE; FLJ18683; |
| <b>Gene ID</b>         | <a href="#">916</a>                                                                                                                                                                                                                                                                       |
| <b>mRNA Refseq</b>     | <a href="#">NM_000733</a>                                                                                                                                                                                                                                                                 |
| <b>Protein Refseq</b>  | <a href="#">NP_000724</a>                                                                                                                                                                                                                                                                 |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                          |                                                                                                                                                                                                                                                                                                            |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>UniProt ID</b>        | P07766                                                                                                                                                                                                                                                                                                     |
| <b>Gene Name 2</b>       | CD3D CD3d molecule, delta (CD3-TCR complex) [ Homo sapiens ]                                                                                                                                                                                                                                               |
| <b>Official Symbol 2</b> | CD3D                                                                                                                                                                                                                                                                                                       |
| <b>Synonyms 2</b>        | CD3D; CD3d molecule, delta (CD3-TCR complex); CD3d antigen, delta polypeptide (TiT3 complex) , T3D; T-cell surface glycoprotein CD3 delta chain; CD3 delta; OKT3, delta chain; CD3 antigen, delta subunit; T-cell receptor T3 delta chain; CD3d antigen, delta polypeptide (TiT3 complex); T3D; CD3-DELTA; |
| <b>mRNA Refseq 2</b>     | NM_000732                                                                                                                                                                                                                                                                                                  |
| <b>Protein Refseq 2</b>  | NP_000723                                                                                                                                                                                                                                                                                                  |
| <b>UniProt ID 2</b>      | P04234                                                                                                                                                                                                                                                                                                     |
| <b>MIM</b>               | 186790                                                                                                                                                                                                                                                                                                     |
| <b>Tris-Bis PAGE</b>     |                                                                                                                                                                                                                        |

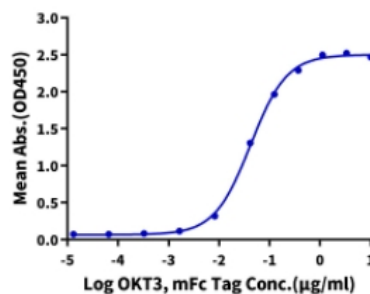
 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

## ELISA Data

**Biotinylated Human CD3E&CD3D, hFc Tag ELISA**  
0.1µg Biotinylated Human CD3E&CD3D, hFc Tag Per Well



Tel: 1-631-559-9269 1-516-512-3133

Email: [info@creative-biomart.com](mailto:info@creative-biomart.com) Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA