

## Human CD8 $\alpha$ ; Protein (C-His-Avi)

|                           |                           |
|---------------------------|---------------------------|
| <b>Catalog Number:</b>    | 803801, 803802            |
| <b>Size:</b>              | 25 ug, 100 ug             |
| <b>Target Name:</b>       | CD8A, CD8, Leu2, MAL, p32 |
| <b>Regulatory Status:</b> | RUO                       |

### PRODUCT DETAILS

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| <b>Application:</b>           | ELISA, BLI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Format:</b>                | Liquid, Purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Expression Host:</b>       | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species:</b>               | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Sources:</b>               | Recombinant Human CD8 $\alpha$ protein (Ser22-Asp182) with C-terminus His-Avi tag is expressed in CHO cells.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Accession Number:</b>      | P01732                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Weight:</b>      | The protein has a predicted molecular weight of 21 kDa. Under DTT-reducing conditions, it migrates at approximately 25-30 kDa on SDS-PAGE prior to conjugation.                                                                                                                                                                                                                                                                                                                                        |
| <b>Affinity Tag:</b>          | C-His-Avi                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity:</b>                | >95% based on SDS-PAGE under reducing condition                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Formulation:</b>           | 1xPBS buffer, pH7.4, 0.22 $\mu$ m filtered                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Endotoxin level:</b>       | Not tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Concentration:</b> | 25 $\mu$ g size is bottled at 0.2mg/mL concentration. 100 $\mu$ g size is supplied at a lot-specific concentration.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage and Handling:</b>  | Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 $\mu$ m-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at $\leq$ -70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability. |

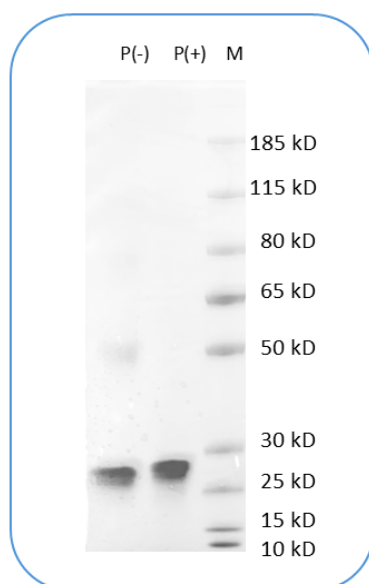
### BACKGROUND INFORMATION

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CD8a is a 32-34 kD type I glycoprotein and a member of the immunoglobulin superfamily, expressed on most thymocytes, subsets of peripheral T cells, and NK cells. It forms either homodimers (CD8a/a) or heterodimers (CD8a/b) with CD8b. CD8 functions as a co-receptor for MHC class I-restricted T cell receptors, enhancing antigen recognition and T cell activation. It also plays a role in thymic differentiation. The extracellular IgSF domain of CD8a binds the  $\alpha$ 3 domain of MHC class I, while the cytoplasmic CXCP motif interacts with the tyrosine kinase p56 Lck to initiate signal transduction. In NK cells, CD8a homodimers support cytotoxic function and memory formation.

## PRODUCT DATA

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Human CD8a Protein (C-His-Avi) on SDS-PAGE under reducing condition (P+) and non-reducing condition (P-). The gel was stained for 1 hour with BlinkBlue (catalog 700102). The purity of this protein appears to be greater than 95%.

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