

Datasheet for ABIN7535874  
**CD8 alpha Protein (rFc Tag)**



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## Overview

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| Quantity:                     | 100 µg                                           |
| Target:                       | CD8 alpha (CD8A)                                 |
| Origin:                       | Human                                            |
| Source:                       | HEK-293 Cells                                    |
| Protein Type:                 | Recombinant                                      |
| Purification tag / Conjugate: | This CD8 alpha protein is labelled with rFc Tag. |

## Product Details

|                  |                                                                                                                                                                                        |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purpose:         | Recombinant Human CD8a Protein                                                                                                                                                         |
| Sequence:        | SQFRVSPLDR TWNLGETVEL KCQVLLSNPT SGCSWLFQPR GAAASPTFLL YLSQNKPKAA<br>EGLDTQRFSG KRLGDTFVLT LSDFRRENEG YYFCSALSNS IMYFSHFVPV FLPKPTTTP<br>APRPPTPAPT IASQPLSLRP EACRPAAGGA VHTRGLDFAC D |
| Specificity:     | Ser22-Asp182                                                                                                                                                                           |
| Purity:          | > 95 % by SDS-PAGE.                                                                                                                                                                    |
| Sterility:       | 0.22 µm filtered                                                                                                                                                                       |
| Endotoxin Level: | <0.1EU/µg                                                                                                                                                                              |

## Target Details

|                   |                                        |
|-------------------|----------------------------------------|
| Target:           | CD8 alpha (CD8A)                       |
| Alternative Name: | CD8a ( <a href="#">CD8A Products</a> ) |

## Target Details

|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background: | <p>Description: T-cell surface glycoprotein CD8 alpha chain, also known as CD8a, is a single-pass type I membrane protein. The CD8 glycoprotein is expressed by thymocytes, mature T cells and natural killer (NK) cells and has been implicated in the recognition of monomorphic determinants on major histocompatibility complex (MHC) Class I antigens, and in signal transduction during the course of T-cell activation. Both human and rodent CD8 antigens are comprised of two distinct polypeptide chains, alpha and beta. The Ig domains of CD8 alpha are involved in controlling the ability of CD8 to be expressed. Mutation of B- and F-strand cysteine residues in CD8 alpha reduced the ability of the protein to fold properly and, therefore, to be expressed. Defects in CD8A are a cause of familial CD8 deficiency. Familial CD8 deficiency is a novel autosomal recessive immunologic defect characterized by absence of CD8+ cells, leading to recurrent bacterial infections.</p> <p>Name: CD8, Leu2, MAL, p32,CD8A,Leu2,MAL,p32</p> |
| Gene ID:    | 925                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| UniProt:    | <a href="#">P01732</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Pathways:   | <a href="#">TCR Signaling</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Application Details

|               |                       |
|---------------|-----------------------|
| Restrictions: | For Research Use only |
|---------------|-----------------------|

## Handling

|                  |                                                                                                                                                                                                                                                                                                                                                                                     |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Format:          | Lyophilized                                                                                                                                                                                                                                                                                                                                                                         |
| Reconstitution:  | Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles. |
| Buffer:          | Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                        |
| Storage:         | -20 °C,-80 °C                                                                                                                                                                                                                                                                                                                                                                       |
| Storage Comment: | Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.                                                                                                                                                                                                               |