Datasheet for ABIN7519820

CD8 alpha Protein (rFc Tag)

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Overview

Quantity:	10 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 EGLDTQRFSG KRLGDTFVLT LSDFRRENEG YYFCSALSNS IMYFSHFVPV FLPAKPTTTP 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 (CD8A Products)

Target Details

Background:	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. Name: CD8, Leu2, MAL, p32,CD8A,Leu2,MAL,p32
Gene ID:	925
UniProt:	P01732
Pathways:	TCR Signaling

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.