

Technical Data Sheet

APC Conjugated Human CD8 α ; Protein (C-His)

Catalog Number: 804003, 804004

Size: 25 ug, 100 ug

Target Name: CD8A, CD8, Leu2, MAL, p32

Regulatory Status: RUO

Product Details

Application: FC

Format: Liquid, APC

Expression Host: CHO

Species: Human

Sources: Recombinant Human CD8 α protein (Ser22-Asp182) with C-terminus His tag is expressed in CHO cells and conjugated to APC.

Accession Number: P01732

Molecular Weight: The protein has a predicted molecular weight of 19 kDa. Under DTT-reducing conditions, it migrates at approximately 25-30 kDa on SDS-PAGE prior to conjugation.

Affinity Tag: C-His

Formulation: 1xPBS buffer, pH7.4, 0.09% NaN₃ with a carrier protein

Endotoxin level: Not tested

Protein Concentration: 25 μ g size is bottled at 0.1mg/mL concentration. 100 μ g size is bottled at lot specific concentration.

Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial may be stored at 2–8°C for up to six months.

Background Information

CD8 α 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 (CD8 α/α) or heterodimers (CD8 α/β) with CD8 β . 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 CD8 α binds the α 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, CD8 α homodimers support cytotoxic function and memory formation.