

APC 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:	Flow Cytometry
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% NaN ₃ 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 /a) or heterodimers (CD8 α /b) 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.