

APC Human CD7 Protein (C-His)

Catalog Number:	805603, 805604
Size:	25 ug, 100 ug
Target Name:	CD7, GP40, TP41, LEU-9, Tp40
Regulatory Status:	RUO

PRODUCT DETAILS

Application:	Flow Cytometry
Format:	Liquid, APC
Expression Host:	CHO
Species:	Human
Sources:	Recombinant Human CD7 (Ala26-Pro180) with C-terminus His tag is expressed in CHO cell and conjugated to APC.
Accession Number:	P09564
Molecular Weight:	The protein has a predicted molecular weight of 16 kDa. Under DTT-reducing conditions, it migrates at approximately 30-40 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:	25µg size is bottled at 0.1mg/mL concentration. 100 µg 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

CD7, also known as GP40, LEU-9, and TP41, is a 40 kD transmembrane glycoprotein of the immunoglobulin superfamily. It is expressed on thymocytes, T cells, NK cells, myeloid precursor cells, and some leukemia cells. CD7 plays a key role in T cell interactions and early lymphoid development. It activates the PI3K pathway through its intracellular YEEM motif and induces mitogenesis and IL-2 production when treated with anti-CD3 or PMA. CD7 is overexpressed in classical Hodgkin lymphoma and T-cell acute lymphoblastic leukemia (T-ALL), and is a target for CAR T-cell therapies.