

Technical Data Sheet

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.