InnoCyto Inc.
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Technical Data Sheet

Biotinylated Human CD7 Protein (C-His-Avi)

Catalog Number: 805403, 805404
Size: 25 ug, 100 ug
Target Name: CD7, GP40, TP41, LEU-9, Tp40
Regulatory Status: RUO

Product Details

Application: ELISA, BLI
Format: Liquid, Biotinylated
Expression Host: CHO
Species: Human
Sources: Recombinant Human CD7 (Ala26-Pro180) with C-terminus His-Avi tag is expressed in CHO cell. This protein was site-specifically labeled with Biotin by BirA ligase.
Accession Number: P09564
Molecular Weight: The protein has a predicted molecular weight of 18 kDa. Under DTT-reducing conditions, it migrates at approximately 30-40 kDa on SDS-PAGE.
Affinity Tag: C-His-Avi
Purity: >95% based on SDS-PAGE under reducing condition
Formulation: 1xPBS buffer, pH7.4, 0.22 μm filtered
Endotoxin level: Not tested
Protein Concentration: 25μg size is bottled at 0.2mg/mL concentration. 100 μg size is supplied at a lot-specific concentration.
Storage and Handling: Briefly centrifuge the vial upon receipt. An unopened vial can be stored at 4°C for up to 2 weeks, or at -20°C or below for up to six months. The protein may be further diluted to 0.1 mg/mL using 0.22 μm-filtered PBS buffer (pH 7.4). For long-term storage, the diluted stock solution should be aliquoted and stored at <= –70°C to minimize freeze-thaw cycles. If additional dilution is required, carrier proteins such as FBS or BSA should be added to maintain protein stability.

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.

Product Data

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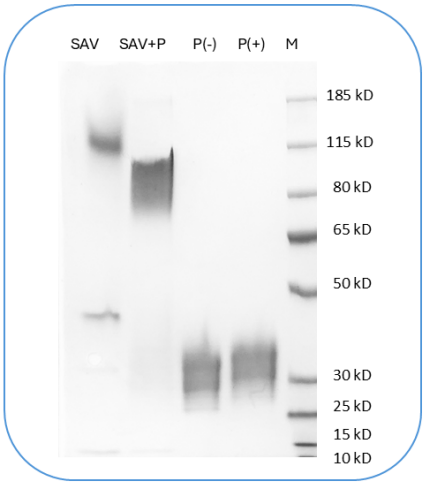
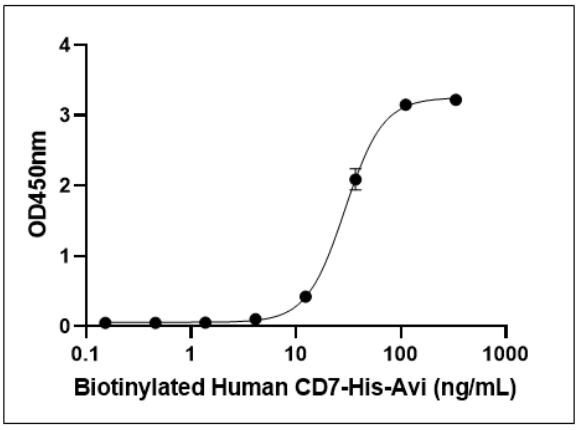


Human CD7 protein (C-His-Avi) was biotinylated in vitro using BirA ligase. SDS-PAGE analysis under reducing (P+) and non-reducing (P–) conditions shows the protein has a purity greater than 95%. A gel shift assay using co-incubation with streptavidin indicates that the biotinylation efficiency of the CD7 protein exceeds 95%.



Human SECTM1 (C-Fc) protein is coated at 1 ug/mL (100ng/well). Biotinylated Human CD7 Protein (C-His-Avi) can detect the SECTM1 protein in the dose dependent manner. The ED50 is about 20-60 ng/mL.