InnoCyto Inc.
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Technical Data Sheet

PE Human Trop2 Protein (C-His)

Catalog Number: 805901, 805902
Size: 25 ug, 100 ug
Target Name: TROP2,TACSTD2, GA733-1, M1S1
Regulatory Status: RUO

Product Details

Application: Flow Cytometry
Format: Liquid, PE
Expression Host: CHO
Species: Human
Sources: Recombinant Human Trop2 (Gln24-Thr274) with C-terminus His-Avi tag is expressed in CHO cell and conjugated to PE.
Accession Number: P09758
Molecular Weight: The protein has a predicted molecular weight of 29 kDa. Under DTT-reducing conditions, it migrates at approximately 40-50 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

TROP-2, also known as TACSTD2, is a 35.7 kD protein that belongs to the EpCAM family. It is a cell surface receptor that can transduce calcium signals. Mutations of this gene are associated with gelatinous drop-like corneal dystrophy. TROP-2 is highly expressed in a variety of epithelial cancers, making it a potential therapeutic target. The cytoplasmic tail of TROP-2 contains potential phosphorylation sites and a phosphatidyl-inositol binding sequence, suggesting its role in signal transduction. As a member of a family of at least two type I membrane proteins, TROP-2 is closely related to EpCAM, also known as TROP-1, and may play a role in regulating carcinoma cell growth.