InnoCyto Inc.
15375 Barranca Pkwy, Suite I-103
Irvine, CA 92618

Technical Data Sheet

Human Trop2 Protein (C-His-Avi)

Catalog Number: 805701, 805702
Size: 25 ug, 100 ug
Target Name: TROP2,TACSTD2, GA733-1, M1S1
Regulatory Status: RUO

Product Details

Application: ELISA, BLI
Format: Liquid, Purified
Expression Host: CHO
Species: Human
Sources: Recombinant Human Trop2 (Gln31-Thr274) with C-terminus His-Avi tag is expressed in CHO cell.
Accession Number: P09758
Molecular Weight: The protein has a predicted molecular weight of 31 kDa. Under DTT-reducing conditions, it migrates at approximately 35-45 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

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.

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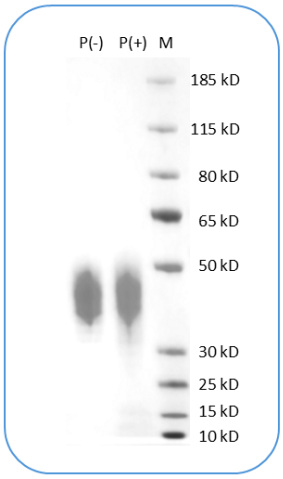

Human Trop2 Protein (C-His-Avi) on SDS-PAGE under reducing condition (P+) and non-reducing condition (P-). The gel was stained for 1 hour with BlinkBlue (catalog 700102). The purity of this protein appears to be greater than 95% based on reducing conditions.