

## Technical Data Sheet

### APC Human Trop1/EpCAM Protein (C-His)

**Catalog Number:** 806503, 806504

**Size:** 25 ug, 100 ug

**Target Name:** EPCAM, TROP1, TACSTD1, CD326, DIAR5, EGP2, EGP314, EGP40, ESA, GA733-2, HNPCC8, HNPCC-8, KS1, 4, KSA, M4S1, MIC18, MK1

**Regulatory Status:** RUO

#### Product Details

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**Application:** Flow Cytometry

**Format:** Liquid, APC

**Expression Host:** CHO

**Species:** Human

**Sources:** Recombinant Human Trop1 (Gln24-Lys265) with C-terminus His tag is expressed in CHO cell and conjugated APC.

**Accession Number:** P16422

**Molecular Weight:** The protein has a predicted molecular weight of 29 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% NaN<sub>3</sub> 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

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Ep-CAM, also known as tumor-associated calcium signal transducer 1, epithelial cell surface antigen, epithelial glycoprotein 2 (EGP2), adenocarcinoma-associated antigen, and TROP1, is a 40 kD glycosylated type I transmembrane protein containing six disulfide bridges and one THYRO domain. It is highly expressed on normal epithelial cells, including those in bone marrow, colon, and lung, and is also found on carcinomas, particularly those of gastrointestinal origin. Recent studies have shown that Ep-CAM expression occurs during early erythropoiesis. As a homotypic calcium-independent cell adhesion molecule, it plays a role in carcinogenesis by inducing genes involved in cellular metabolism and proliferation. Ep-CAM has been identified as a potential immunotherapeutic target for the treatment of human carcinomas.