

## PE Human Trop2 Protein (C-His)

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

### PRODUCT DETAILS

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<b>Application:</b>	Flow Cytometry
<b>Format:</b>	Liquid, PE
<b>Expression Host:</b>	CHO
<b>Species:</b>	Human
<b>Sources:</b>	Recombinant Human Trop2 (Gln24-Thr274) with C-terminus His-Avi tag is expressed in CHO cell and conjugated to PE.
<b>Accession Number:</b>	P09758
<b>Molecular Weight:</b>	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.
<b>Affinity Tag:</b>	C-His
<b>Formulation:</b>	1xPBS buffer, pH7.4, 0.09% NaN3 with a carrier protein
<b>Endotoxin level:</b>	Not tested
<b>Protein Concentration:</b>	25µg size is bottled at 0.1mg/mL concentration. 100 µg size is bottled at lot specific concentration.
<b>Storage and Handling:</b>	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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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 phosphatidylinositol 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.