

Biotin Human Trop2 Protein (C-His-Avi)

Catalog Number:	805703, 805704
Size:	25 ug, 100 ug
Target Name:	TROP2,TACSTD2, GA733-1, M1S1
Regulatory Status:	RUO

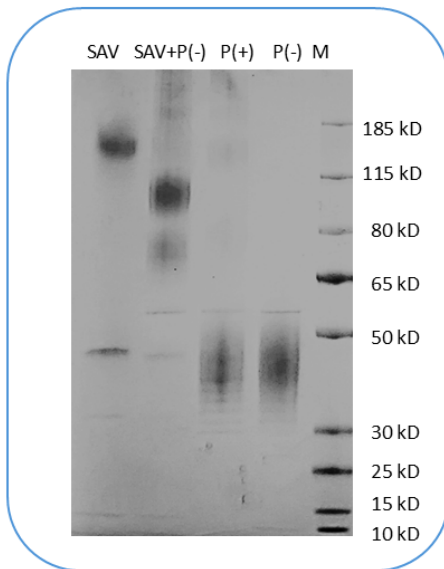
PRODUCT DETAILS

Application:	ELISA, BLI
Format:	Liquid, Biotinylated
Expression Host:	CHO
Species:	Human
Sources:	Recombinant Human Trop2 (Gln31-Thr274) with C-terminus His-Avi tag is expressed in CHO cell. This protein was site-specifically labeled with Biotin by BirA ligase.
Accession Number:	P09758
Molecular Weight:	The protein has a predicted molecular weight of 31 kDa. Under DTT-reducing conditions, it migrates at approximately 40-50 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 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.

PRODUCT DATA



Human Trop2 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 Trop2 protein exceeds 95%.

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