

Active Recombinant Human TACSTD2 Protein, Flag&His tagged

Cat. No. TACSTD2-78H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	TROP-2 dimer protein contains a TROP-2 extracellular domain (UniProt# P09758, amino acids His27-Thr274) fused with a dimer motif followed by a tandem Flag-His tag at the C-terminus.
Species	Human
Source	HEK293T
ProteinLength	27-274 aa
Description	Human TROP-2 (trophoblast cell surface antigen 2) is a cell-surface type I transmembrane glycoprotein expressed in epithelial cells of various tissues. TROP-2 is also known as TROP2, TACSTD2, EGP-1, pancreatic carcinoma marker protein GA733-1/GA733, gastrointestinal tumor-associated antigen GA7331, GP50, M1S1, tumor-associated calcium signal transducer 2, CAA1, and TTD2. TROP-2 exists as a monomer on the cell surface but can form dimers or oligomers on cancer cells enhancing its role in cancer progression. TROP-2 contains an extracellular domain, a single transmembrane helix, and a cytoplasmic tail. The extracellular domain is comprised of three subdomains: a cysteine-rich domain, a thyroglobulin type-1 domain, and a cysteine-poor domain. TROP-2 is normally involved in the maintenance of epithelial tissue integrity. It is overexpressed in many cancers including breast cancer, non-small-cell lung cancer, thyroid cancer, gastric cancer, pancreatic cancer, and ovarian cancer.

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	TROP-2 overexpression is involved in cancer cell growth, proliferation, invasion, migration, and survival of cancer cells, and is associated with tumor aggressiveness and poor prognosis. TROP-2 is an emerging target of cancer therapeutics.
Molecular Mass	72 kDa
Homodimer/Heterodimer	Homodimer
Purity	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
Application	Verified Applications: ELISA for TROP-2-specific antibody binding assays. Suggested Applications: ELISA for TROP-2-specific antibody binding assays. SPR & BLI for TROP-2-specific antibody binding assays. Animal immunization, RUO.
Storage	At -80 centigrade
Storage Buffer	0.2µm filtered PBS, pH 7.4, no preservatives
Shipping	Frozen Dry Ice

GENE INFORMATION

Gene ID	4070
Gene Name	TACSTD2 tumor-associated calcium signal transducer 2 [Homo sapiens (human)]
Official Symbol	4070
Synonyms	TACSTD2; tumor-associated calcium signal transducer 2; M1S1; EGP 1; GA733

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	1; TROP2; epithelial glycoprotein-1; cell surface glycoprotein TROP2; cell surface glycoprotein Trop-2; pancreatic carcinoma marker protein GA7331; pancreatic carcinoma marker protein GA733-1; gastrointestinal tumor-associated antigen GA7331; membrane component chromosome 1 surface marker 1; membrane component, chromosome 1, surface marker 1; 40kD glycoprotein, identified by monoclonal GA733; EGP1; GP50; EGP-1; GA7331; GA733-1;
mRNA Refseq	NM_002353
Official Symbol 2	TACSTD2
Gene ID 2	4070
Gene Name 2	TACSTD2 tumor-associated calcium signal transducer 2 [Homo sapiens (human)]
mRNA Refseq 2	NM_002353
Protein Refseq 2	NP_002344
MIM 2	137290
UniProt ID 2	P09758
Bioactivity-Antibody Binding	Immobilized TROP-2-Flag-His dimer protein at 2 µg/mL (100 µL/well) can bind anti-human TROP-2 monoclonal antibody with half maximal effective concentration (EC50) range of 10.9-43.6 ng/mL (QC tested).
SDS-PAGE	MW: Molecular Weight marker reduced condition NR: TROP-2 dimer under non-

reducing condition

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