

## Active Recombinant Mouse Tacstd2 Homodimer Protein, Flag&His tagged

**Cat. No.** Tacstd2-64M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	TROP-2 protein dimer contains a TROP-2 extracellular domain (UniProt# Q8BGV3) fused with a proprietary cis-dimer motif followed by a tandem FLAG-His tag at the C-terminus was expressed in HEK293T.
<b>Species</b>	Mouse
<b>Source</b>	HEK293T
<b>ProteinLength</b>	25-270 aa
<b>Description</b>	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 human cancers including breast cancer, non-small-cell lung cancer, thyroid cancer, gastric cancer, pancreatic cancer, and ovarian cancer. TROP-2 overexpression is involved in cancer cell growth,

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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. Mouse TROP-2 shares 80–85% amino acid identity with human TROP-2. The functional domains are highly conserved, suggesting similar biological roles.

<b>Molecular Mass</b>	74 kDa
<b>Purity</b>	Greater than 90% dimer form as determined by SDS-PAGE under non-reducing condition
<b>Application</b>	Verified Applications: ELISA for TROP-2-specific antibody binding assays. Suggested Applications: SPR & BLI for TROP-2-specific antibody binding assays. Animal immunization, RUO.
<b>Storage</b>	Store at -80 centigrade.
<b>Storage Buffer</b>	0.22µm filtered PBS, pH 7.4
<b>Shipping</b>	Frozen Dry Ice

## GENE INFORMATION

<b>Gene Name</b>	Tacstd2 tumor-associated calcium signal transducer 2 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Tacstd2
<b>Synonyms</b>	TACSTD2; tumor-associated calcium signal transducer 2; lymphocyte antigen 97; cell surface glycoprotein Trop-2; tumor-associated calcium signal transducer 2; Ly97; EGP-1; TROP2; C80403; GA733-1; MGC141612; MGC141613;

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Gene ID	56753
mRNA Refseq	NM_020047
Protein Refseq	NP_064431
UniProt ID	Q8BGV3

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