



Recombinant Protein Technical Manual  
Recombinant Mouse TROP2/TACSTD2 Protein (His  
Tag)  
RPES0325

### Product Data:

**Product SKU:** RPES0325

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** Q8BGV3

### Protein Information:

**Molecular Mass:** 28.8 kDa

**AP Molecular Mass:** 38-55 kDa

**Tag:** C-His

**Bio-activity:**

**Purity:** > 95% as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Tumor-associated calcium signal transducer 2; Tacstd2; Trop2; Cell surface glycoprotein Trop-2; TROP-2; C80403; EGP; GA733; Ly97

## Immunogen Information:

**Sequence:** Gln25-Gly270

## Background:

Tumor-associated calcium signal transducer 2 (Tacstd2), also known as Cell surface glycoprotein Trop-2, belongs to the EPCAM family. Tacstd2 expressed in kidney, lung, ovary and testis and has high levels of expression in immortalized keratinocytes. Tacstd2 may functions as a growth factor receptor. It has negative regulation of branching involved in ureteric bud morphogenesis, cell motility, epithelial cell migration, ruffle assembly, stress fiber assembly and substrate adhesion-dependent cell spreading. Also, it has positive regulation of stem cell proliferation. Tacstd2 is capable of transducing an intracellular calcium signal and may play a role in tumor growth. It also has adhesive functions.