

## MOUSE TROP2 PROTEIN, HFC TAG

**Cat.#:** 12137

**Product Name:** Mouse Trop2 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** Tpm-2;Trop-2

**Target:** Trop2

**UNIPROT ID:** Q8BGV3

**Description:** Recombinant mouse Trop2 protein with C-terminal human Fc tag

**Background:** This gene belongs to the tropomyosin family which encodes proteins that bind to actin filaments and stabilize them by regulating access to actin modifying proteins. The encoded protein is a high molecular weight tropomyosin expressed in slow skeletal muscle. In humans, mutations in this gene are associated with nemaline myopathy, cap disease and distal arthrogryposis syndromes. Alternative splicing of this gene results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2013]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 54.1 kDa after removal of the signal peptide. The apparent molecular mass of mTrop2-hFc is approximately 55-70 kDa due to glycosylation.

**Molecular Characterization:** Mouse Trop2(Gln25-Gly270) hFc(Glu99-Ala330)

**Purity:** The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**Storage & Shipping:** Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

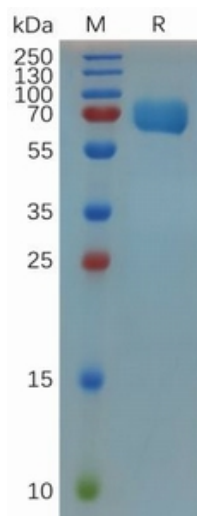


Figure 1. Mouse Trop2 Protein, hFc Tag on SDS-PAGE under reducing condition.

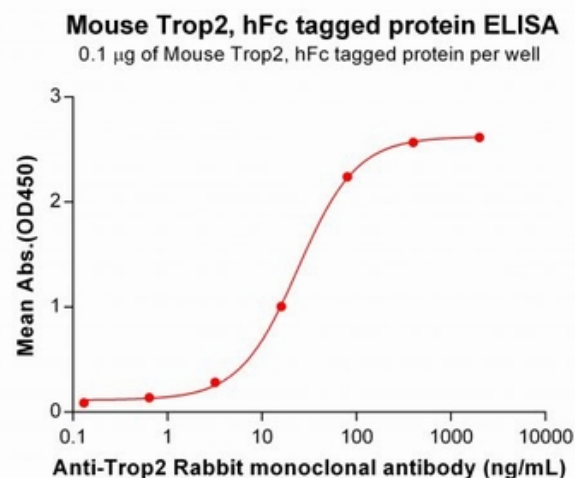


Figure 2. ELISA plate pre-coated by 1  $\mu$ g/ml (100  $\mu$ l/well) Mouse Trop2 Protein, hFc Tag (12137) can bind anti-Trop2 monoclonal antibody 28391 in a linear range of 0.64-80 ng/mL.