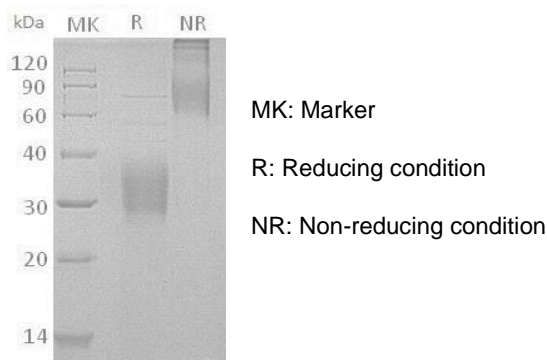


Recombinant Human TROP-2

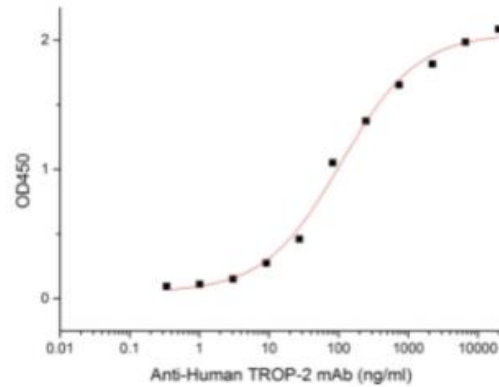
Catalog No: CU64

Description	Recombinant Human Tumor-associated Calcium Signal Transducer 2 is produced by our Mammalian expression system and the target gene encoding Thr88-Thr274 is expressed with a 6His tag at the C-terminus.
Expression System	Human cells
Alternative name	Tumor-associated calcium signal transducer 2; Membrane component chromosome 1 surface marker 1; Cell surface glycoprotein Trop-2; TACSTD2; TROP2
Accession No.	P09758
Quality Control	Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, 5% Trehalose, 2mM EDTA, pH7.4.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
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. Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Background	Tumor associated calcium signal transducer 2 (TACSTD2, TROP-2) is a type I cell surface glycoprotein that is highly expressed on human carcinomas. It was originally identified as an antigen present on human gastrointestinal tumors and is the second of two members of this family. Human and mouse TROP-2 share 87% amino acid (aa) similarity. TROP-2 is capable of transducing an intracellular calcium signal and may play a role in tumor growth. It also has adhesive functions.

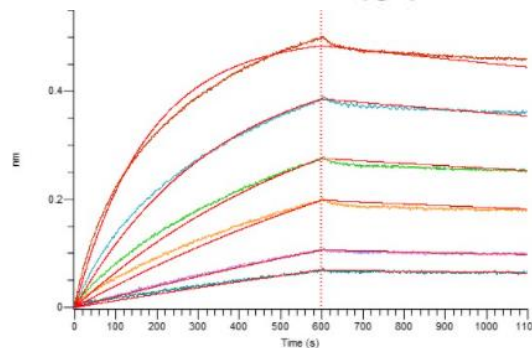
SDS-PAGE



Activity



Immobilized Human TROP-2-His(Cat#CU64) at 2 μ g/ml (100 μ l/well) can bind Anti-Human TROP-2 mAb. The ED50 of Anti-Human TROP-2 mAb is 108.6 ng/ml.



Loaded Anti-Human TROP-2 mAb-Fc(Cat#NC045) on Protein A Biosensor, can bind Human TROP-2-His(Cat#CU64) with an affinity constant of 1.57 nM as determined in BLI assay.