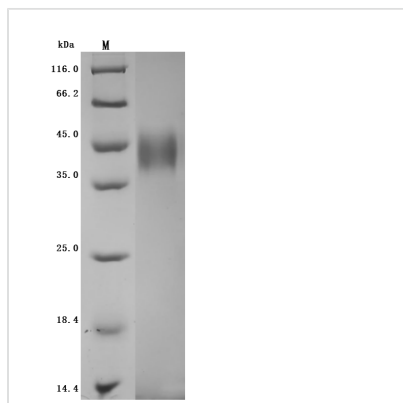


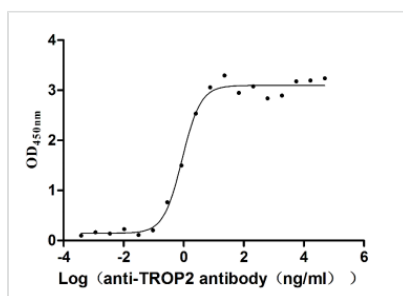


Recombinant Human Tumor-associated calcium signal transducer 2 (TACSTD2), partial (Active)

Product Code	CSB-MP023072HU1d7
Abbreviation	Recombinant Human TACSTD2 protein, partial (Active)
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P09758
Form	Lyophilized powder
Storage Buffer	Lyophilized from a 0.2 µm filtered 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human TROP2 at 2 µg/mL can bind Anti-TROP2 recombinant antibody (CSB-RA023072MA1HU), the EC50 is 0.7284-1.075 ng/mL.
Purity	Greater than 95% as determined by SDS-PAGE.
Sequence	HTAAQDNCTCPTNKMTVCSPDGPGGRCQCRALGSGMAVDCSTLTSKCLLLK ARMSAPKNARTLVRPSEHALVDNDGLYDPDCDPEGRFKARQCNQTSVCWCV NSVGVRRTDKGDLRLCDELVRTHHILIDLRHRPTAGAFNHSDLDAELRRLFR ERYRLHPKFVAAVHYEQPTIQIELRQNTSQKAAGDVIDGDAAYYFERDIKGESL FQGRGGLDLRVRGEPLQVERTLIYYLDEIPPKFSMKRLT
Source	Mammalian cell
Target Names	TACSTD2
Expression Region	27-274aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	C-terminal 10xHis-tagged
Mol. Weight	30.6 kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Activity
Measured by its binding ability in a functional ELISA. Immobilized Human TROP2 at 2 µg/mL can bind Anti-TROP2 recombinant antibody (CSB-RA023072MA1HU), the EC₅₀ is 0.7284-1.075 ng/mL.

Description

This Human TACSTD2 (GA733-1, M1S1, TROP2) recombinant protein was produced in Mammalian cell, where the gene sequence encoding Human TACSTD2 (27-274aa) was expressed with the C-terminal 10xHis-tag. The purity of this TACSTD2 protein was 95%+. The activity was validated.

TROP2, also known as TACSTD2, EGP-1, GA733-1, and MIS1, is a cell surface glycoprotein encoded and expressed by the Tacstd2 gene in the chromosome 1p32 region. TROP2 belongs to the GA733 protein family and has high structural sequence similarity with epithelial cell adhesion molecule (EpCAM, also known as Trop1, TACSTD1). The homology is up to 49%. Studies have demonstrated that TROP2 may be an enhancer in the regulation of the EPCAM signaling pathway. The primary structure of TROP2 protein is a 36 kDa polypeptide composed of 323 amino acids. The primary structure is post-translationally modified by N-terminal glycosylation to form a type I cell membrane glycoprotein different from EpCAM, namely TROP2 protein. TROP2 protein is a single transmembrane protein. Its N-terminal is the extracellular domain (TROP2 EC). The extracellular domain is connected to the intracellular short tail (TROP2 IC) of a hydrophobic polypeptide consisting of 26 amino acid residues through a unidirectional transmembrane helix, thereby being fixed on the cell membrane.

Endotoxin

Less than 1.0 EU/ug as determined by LAL method.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.



Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.