Anti-Human CDCP1 Antibody Fragments scFv

Cat. No. CSC-P0652 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	CHO
Cell Line Description	CHO-Anti-Human CDCP1 scFv stable cell line is clonally-derived from a CHO cell line, which has been transfected with an Anti-human CDCP1 scFv gene to allow expression of the scFv. It is an example of a cell line transfected using our proprietary CBTGS gene screening and amplification system.
Background	May be involved in cell adhesion and cell matrix association. May play a role in the regulation of anchorage versus migration or proliferation versus differentiation via its phosphorylation. May be a novel marker for leukemia diagnosis and for immature hematopoietic stem cell subsets. Belongs to the tetraspanin web involved in tumor progression and metastasis.
Growth Properties	Suspension
Morphology	Epithelial-like
Host Cell	CHO
Propagation	Complete growth medium: Serum-free MediumAtmosphere: air, 95%; carbon dioxide (CO2), 5% Temperature: 37 °C

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Starting Cells From Frozen Cell Stock	1. Remove the packaging cell lines from liquid nitrogen and carry out a quick thaw. Float the cells in the 37 °C water bath for 2 minutes until nearly (80%) thawed. Once cells are thawed, it is important to dilute the cells 1:10 in growth media immediately to reduce the potentially toxic effects of the DMSO preservative on the cells.2. Clean the outside of the vial with 70% ethanol before opening.3. Remove the cells from the vial and add slowly into a 15 ml conical tube containing 10 ml pre-warmed media. 4. Centrifuge for 5 minutes 300 xg to pellet cells and remove the supernatant.5. Add 14 ml of media and transfer cells to a T25 shaker flask.6. Place the cells in the 37 °C incubator with 5% CO2.7. Allow incubation for 3-4 days to reach confluence. The cells will grow well over a period of several days in culture at 37 °C.
Subculturing	1. Centrifuge for 5 minutes 300 xg and discard culture medium.2. Add 6.0 to 8.0 ml of complete growth medium and aspirate cells by gently pipetting.3. Add appropriate aliquots of the cell suspension to new culture vessels.Incubate cultures at 37 °C.Subcultivation Ratio: A subcultivation ratio of 1:4 to 1:8 is recommended Medium Renewal: 2 to 3 times per week
Mycoplasma	Mycoplasma Status: Negative (MycoAlert Kit)
Freeze Medium	Complete growth medium 90%; DMSO, 10%
Storage	Liquid nitrogen vapor phase
Preservation	1. Detach cells from culture dish according to the Sub-Culture Procedure.2. Resuspend cells at a density of 5 x 10^6 cells/mL in freeze medium.3. Aliquot 1 mL cells into cryogenic vials.4. Place vials in a freezing container and store at –80 °C overnight.5. Transfer vials to liquid nitrogen for long term storage. If properly stored, cells should remain stable for years.
Safety Considerations	The following safety precautions should be observed.1. Use pipette aids to prevent

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	ingestion and keep aerosols down to a minimum.2. No eating, drinking or smoking while handling the stable line.3. Wash hands after handling the stable line and before leaving the lab.4. Decontaminate work surface with disinfectant or 70% ethanol before and after working with stable cells.5. All waste should be considered hazardous.6. Dispose of all liquid waste after each experiment and treat with bleach.
Ship	Dry ice
Product Type	scFv
Product Purity	HPLC >98%, One strip for SDS-PAGE.
Product Activity/Specificity	Tested positive against native human antigen.
Product Storage	It should be stored at –20 °C. Reconstituted protein aliquots should avoid repeated freeze-thaw cycles.
Involvement in Disease	Monoclonal antibody fragments binds to CDCP1.

GENE INFORMATION

Gene Name	CDCP1 CUB domain containing protein 1 [Homo sapiens]
Official Symbol	CDCP1
Synonyms	CDCP1; CUB domain containing protein 1; CUB domain-containing protein 1; CD318; SIMA135; membrane glycoprotein gp140; transmembrane and associated with src kinases; subtractive immunization M plus HEp3-associated 135 kDa protein; TRASK;
Gene ID	64866

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

mRNA Refseq	NM_022842
Protein Refseq	NP_073753
MIM	611735
UniProt ID	Q9H5V8
Chromosome Location	3p21.3

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA