



# Recombinant Rat Cytohesin-1 (Cyth1)

<b>Product Code</b>	CSB-MP006467RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P97694
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MEDDDSYVPS DLTAERQEL ENIRRRKQEL LADIQRLKEE IAEVANEIES LGSTEERKNM QRNKQVAMGR KKFNMDPKKG IQFLIENGLL KNTCEDIAQF LYKGEGLNKT AIGDYLGERD EFSIQVLHAF VELHEFTDLN LVQALRQFLW SFRLPGEAQK IDRMMEAFQA RYCQCNTGVF QSTDTCYVLS FAIIMLNTSL HNPNVKDKPT VERFIAMNRG INDGGDLPEE LLRNLYESIK NEPFKIPEDD GNDLTHTFN PDREGWLLKL GGGRVKTWKR RWFILTDNCL YFEYTTDKE PRGIIPLENL SIREVEDSKK PNCFELYIPD NKDQVIKACK TEADGRVVEG NHTVYRISAP TPEEKEDWIK CIKAAISRDP FYEMLAARKK KVSSTKRH
<b>Source</b>	Mammalian cell
<b>Target Names</b>	Cyth1
<b>Protein Names</b>	Recommended name: Cytohesin-1 Alternative name(s): PH, SEC7 and coiled-coil domain-containing protein 1 SEC7 homolog A Short name= rSec7-1
<b>Expression Region</b>	1-398
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full length protein
<b>Target Details</b>	This protein is a member of the PSCD family. Members of this family have identical structural organization that consists of an N-terminal coiled-coil motif, a central Sec7 domain, and a C-terminal pleckstrin homology (PH) domain. The coiled-coil motif is involved in homodimerization, the Sec7 domain contains guanine-nucleotide exchange protein (GEP) activity, and the PH domain interacts with phospholipids and is responsible for association of PSCDs with membranes. Members of this family appear to mediate the regulation of protein sorting and membrane trafficking. This gene is highly expressed in natural killer and peripheral T cells, and regulates the adhesiveness of integrins at the plasma membrane of lymphocytes. The encoded protein is 83% homologous to that of CYTH2.
<b>Reconstitution</b>	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  $-20^{\circ}\text{C}/-80^{\circ}\text{C}$ . The shelf life of lyophilized form is 12 months at  $-20^{\circ}\text{C}/-80^{\circ}\text{C}$ .