



# Recombinant Rat Vacuolar protein sorting-associated protein 45 (Vps45)

<b>Product Code</b>	CSB-EP025912RA-B
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O08700
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	<p>MNVVFAVKQY ISKMIEDSGP GMKVLLMDKE TTGIVSMVYT QSEILQKEVY            LFERIDSQNR EIMKHLKAIC FLRPTKENVD SLIQELRRPK YSIYFIYFSN            VISKSDVKSL AEADEQEVVA EVQEFYGDYI AVNPHLFLSLN ILGCCQGRNW            DPAQLSRTTQ GLTALLLSLK KCPMIRYQLS SEAAKRLGEC VKQVISKEYE            LFEFRRTEVP PLLLILDRCD DAITPLLQW TYQAMVHELL GINNNRIDLS            RVPGISKDLR EVVLSAENDE FYANNMYLNF AEIGSNIKNL MEDFQKKRPK            EQQKLESIAD MKAFVENYPQ FKKMSGTVSK HVTVVGELSR LVSERNLLEV            SEVEQELACQ NDHSSALQNV KRLLQNPKVT EFDVRLVML YALHYERHSS            NSLPGLIVDL RSKGVAEKYR KLVSAVVEYG GKRVRGSDLF SPKDAVAITK            QFLKGLKGVE NVYTQHQPFL HETLDHLIKG KLKENLYPYL GPSTLRDRPQ            DIIVFVIGGA TYEEALTVYN LNRTTPGVRI VLGTTIHTNT KSFLEEVLAS            GLHSRSRESS QATSRASRR</p>
<b>Source</b>	E.coli
<b>Target Names</b>	Vps45
<b>Protein Names</b>	Recommended name: Vacuolar protein sorting-associated protein 45 Short name= rVps45
<b>Expression Region</b>	1-570
<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>	Vesicle mediated protein sorting plays an important role in segregation of intracellular molecules into distinct organelles. Genetic studies in yeast have identified more than 40 vacuolar protein sorting (VPS) genes involved in vesicle transport to vacuoles. This gene is a member of the Sec1 domain family, and shows a high degree of sequence similarity to mouse, rat and yeast Vps45. The exact function of this gene is not known, but its high expression in peripheral blood mononuclear cells suggests a role in trafficking proteins, including inflammatory mediators.
<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.

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**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.