



# Recombinant Rat Alpha-fetoprotein (Afp)

<b>Product Code</b>	CSB-BP001421RA
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P02773
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	RVLHTN EFGIESTLDS SQCPTEKNMF NVATIVVAQF VQDATKAEVN KMSSDALAAM KENTGDGCLNQLSVFLDEI CHETELSNKY GFSGCCNQSG VERHQCLLAR KKTAPDSVPP FHPETAESC PAYEENRAMS INTFIYDVSK RNPFLYAPTI LYLAAQYDKA VPACCKADNM EECFQTKRAS MAKELREGSM LNEHVCAVIR KFGSRNLQAV LIKLSQKFP KANITEIRKL ALDVAHIHEQ CCHGNAMECL QDGESVMTHM CSQQEILSSK TAECCKLPTI ELGYCIIHAE NGDKPEGLTL NPSEFLGDRN FAQFSSEEKL LFMASFLHEY SRNHPNLPVS VILKTAQSYQ EILEKCSQSE TPKKCQDNME EELQKHIQES QALAKQSCNL YQKLGOPYLQ NLFLIGYTRK APQLTSAELI DLTGKMVSIA STCCQLSEEK RSACGEGLAD IYIGHLCLRH EANPVNSGIN HCCSSSYSNR RLCITSFLRD ETYVPPPFSE DKFIFHKDLC QAQGRALQTM KQELLINLVK QKPEMTEEQH AAVTADFSGL LEKCKDQDQ EACFAKEGPK LISKTREALG V
<b>Source</b>	Baculovirus
<b>Target Names</b>	Afp
<b>Protein Names</b>	Recommended name: Alpha-fetoprotein Alternative name(s): Alpha-1-fetoprotein Alpha-fetoglobulin
<b>Expression Region</b>	25-611
<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 of Mature Protein
<b>Target Details</b>	This gene encodes alpha-fetoprotein, a major plasma protein produced by the yolk sac and the liver during fetal life. Alpha-fetoprotein expression in adults is often associated with hepatoma or teratoma. However, hereditary persistence of alpha-fetoprotein may also be found in individuals with no obvious pathology. The protein is thought to be the fetal counterpart of serum albumin, and the alpha-fetoprotein and albumin genes are present in tandem in the same transcriptional orientation on chromosome 4. Alpha-fetoprotein is found in monomeric as well as dimeric and trimeric forms, and binds copper, nickel, fatty acids and bilirubin. The level of alpha-fetoprotein in amniotic fluid is used to measure renal loss of protein to screen for spina bifida and anencephaly.
<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.