

Recombinant Full Length Human AFP Protein, GST-tagged

Cat. No. AFP-993HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human AFP full-length ORF (AAH27881.1, 1 a.a. - 609 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	609 amino acids
Description	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. [provided by RefSeq, Jul 2008]
Molecular Mass	95.1 kDa
AA Sequence	MKWVESIFLI FLLNFTESRT LHRNEYGIAS ILDSYQCTAE ISLADLATIF FAQFVQEATY KEVSKMVKDA LTAIEKPTGD EQSSGCLENQ LPAFLEELCH EKEILEKYGH SDCCSQSEEG RHNCFLAHKK PTPASIFLFQ VPEPVTSC EA

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YEEDRETFMN KFIYEIARRH PFLYAPTILL WAARYDKIIP SCCKAENAVE
 CFQTKAATVT KELRESSLLN QHACAVMKNF GTRTFQAITV TKLSQKFTKV
 NFTEIQKLVL DVAHVHEHCC RGDVLDCLQD GEKIMSYICS QQDTLSNKIT
 ECCKLTTLER GQCIIHAEND EKPEGLSPNL NRFLGDRDFN QFSSGEKNIF
 LASFVHEYSR RHPQLAVSVI LRVAKGYQEL LEKCFQTENP LECQDKGEEE
 LQKYIQESQA LAKRSCGLFQ KLGEYYLQNA FLVAYTKKAP QLTSSSELMAI
 TRKMAATAAT CCQLSEDKLL ACGEGAADII IGHLCIRHEM TPVNTGVGQC
 CTSSYANRRP CFSSLVDET YVPPAFSDDK FIFHKDLCQA QGVALQTMKQ
 EFLINLVKQK PQITEEQLEA VIADFSGLLE KCCQGQEQEV CFAEEGQKLI
 SKTRAALGV

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

AFP alpha-fetoprotein [Homo sapiens]

Official Symbol

AFP

Synonyms

AFP; alpha-fetoprotein; HPAFP; FETA; alpha-fetoglobulin; alpha-1-fetoprotein

Gene ID

174

mRNA Refseq

NM_001134

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Protein Refseq	NP_001125
MIM	104150
UniProt ID	P02771

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