

Recombinant Human AFP Protein, GST-tagged

Cat. No. AFP-413H **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	Wheat Germ
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	MKWVESIFLIFLLNFTESRTLHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEATY KEVSKMVKDALTAIEKPTGDEQSSGCLNQLPAFLEELCHEKEILEKYGHSDCCSQS EEGRHNCFLAHKKPTPASIFLQVPEPVTSCAEYEEDRETFMNKFIYEIARRHPFLYA PTILLWAARYDKIIPSCCKAENAVECFQTKAATVTKELRESSLLNQHACAVMKNFGTR

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TFQAITVTKLSQKFTKVNFTIEIQLVLDVAHVHEHCCRGDVLDCLDGEEKIMSYICSQ
 QDTLSNKITECCKLTTLERGQCIIHAENDEKPEGLSPNLNRFLGDRDFNQFSSGEKNI
 FLASVVEHSRRHPQLAVSVILRVAKGYQELLEKCFQTENPLECQDKGEEELQKYIQ
 ESQALAKRSCGLFQKLGEYYLQNAFLVAYTKKAPQLTSSSELMATRKMATAATCCQ
 LSEDKLLACGEGAADIIGHLCIRHEMTPVNTGVGQCCTSSYANRRPCFSSLVVDETY
 VPPAFSDDKFIFHKDLCQAQGVALQTMKQEFLINLVKQKPQITEEQLEAVIADFSGLL
 EKCCQGQEQEVCFAEEGQKLISKTRAALGV

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80centigrade. 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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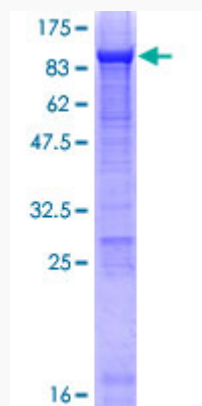
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Protein Refseq NP_001125

MIM 104150

UniProt ID P02771

**Quality Control
Testing:**



12.5% SDS-PAGE Stained with Coomassie Blue.

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