

Datasheet for ABIN7092671

**alpha Fetoprotein Protein (AA 19-609) (Fc Tag)**[Go to Product page](#)**2** Images

## Overview

Quantity:	100 µg
Target:	alpha Fetoprotein (AFP)
Protein Characteristics:	AA 19-609
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This alpha Fetoprotein protein is labelled with Fc Tag.

## Product Details

Purpose:	Recombinant human AFP protein with C-terminal human Fc tag
Specificity:	AFP (Arg19-Val609) hFc (Glu99-Ala330)
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 90 % as determined by SDS-PAGE and Coomassie blue staining.

## Target Details

Target:	alpha Fetoprotein (AFP)
Alternative Name:	<a href="#">AFP (AFP Products)</a>
Background:	This gene encodes alpha-fetoprotein, a major plasma protein produced by the yolk sac and the

## Target Details

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liver during fetal life. Alpha-fetoprotein expression in adults is often associated with hepatocarcinoma and with teratoma, and has prognostic value for managing advanced gastric cancer. 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.

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Molecular Weight: predicted molecular mass of 92.6 kDa after removal of the signal peptide. The apparent molecular mass of AFP-hFc is 100-130 kDa due to glycosylation.

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Gene ID: 174

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UniProt: [P02771](#)

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Pathways: [C21-Steroid Hormone Metabolic Process](#)

## Application Details

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Restrictions: For Research Use only

## Handling

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Format: Lyophilized

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Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

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Storage: -20 °C, -80 °C

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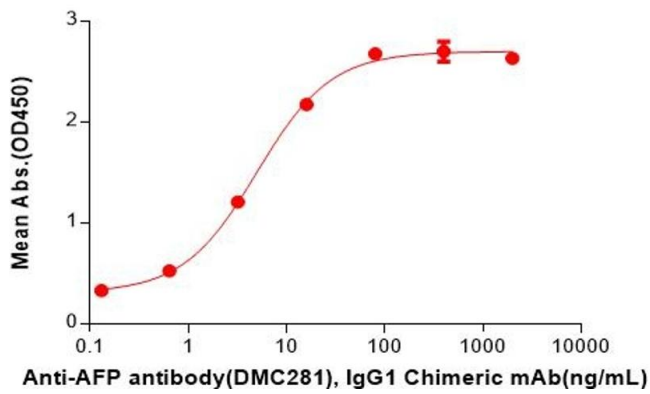
Storage Comment: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).  
Lyophilized proteins are shipped at ambient temperature.

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Expiry Date: 12 months

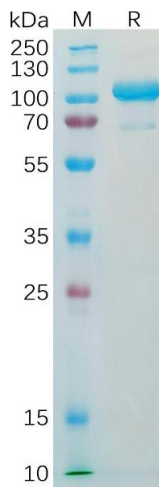
### Human AFP,hFc Tagged protein ELISA

0.2 µg of Human AFP, hFc tagged protein per well



### ELISA

**Image 1.** ELISA plate pre-coated by 2 µg/mL (100 µL/well) Human AFP Protein, hFc Tag (ABIN7092671, ABIN7272210 and ABIN7272211) can bind Anti-AFP antibody, IgG1 Chimeric mAb in a linear range of 0.64-16 ng/mL.



### SDS-PAGE

**Image 2.** Human AFP Protein, hFc Tag on SDS-PAGE under reducing condition.