

## HUMAN AFP PROTEIN, HFC TAG

货号: 11198

产品全名: 人 AFP 蛋白

规格: 10/50/100  $\mu$ g

基因符号 AFPD;FETA;HPAFP

目标蛋白: AFP

**UNIPROT ID:** P02771

**描述:** Recombinant human AFP protein with C-terminal human Fc tag

**背景:** 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 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.

**物种/宿主:** HEK293

**分子量:** The protein has a predicted molecular mass of 92.6 kDa after removal of the signal peptide. The apparent molecular mass of AFP-hFc is approximately 100-130 kDa due to glycosylation.

**分子特征:** AFP(Arg19-Val609) hFc(Glu99-Ala330)

**纯化:** The purity of the protein is greater than 90% as determined by SDS-PAGE and Coomassie blue staining.

**Formulation & Reconstitution:** Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

**储存和运输:** Store at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at  $-80^{\circ}\text{C}$  (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



Figure 1. Human AFP Protein, hFc Tag on SDS-PAGE under reducing condition.

### Human AFP, hFc Tagged protein ELISA

0.2  $\mu$ g of Human AFP, hFc tagged protein per well

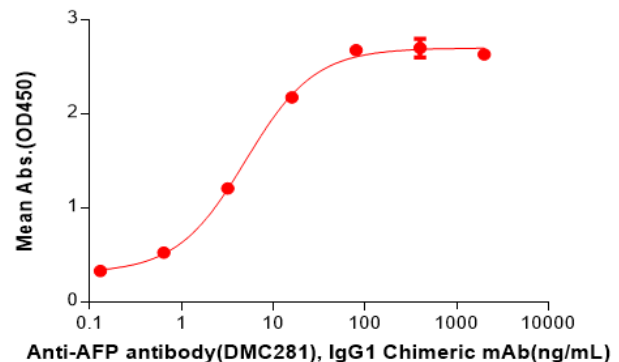


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human AFP Protein, hFc Tag(11198) can bind Anti-AFP antibody(DMC281), IgG1 Chimeric mAb in a linear range of 0.64-16 ng/mL.