PRODUCT INFORMATION

Target	AFP
Synonyms	AFPD;FETA;HPAFP
Description	Recombinant human AFP protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	P02771
Expression Host	HEK293
Tag	C-Human Fc Tag
Molecular Characterization	AFP(Arg19-Val609) hFc(Glu99-Ala330)
Molecular Weight	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.
Purity	The purity of the protein is greater than 90% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	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.
Background	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 persistance 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.
Usage	Research use only
Conjugate	Unconjugated

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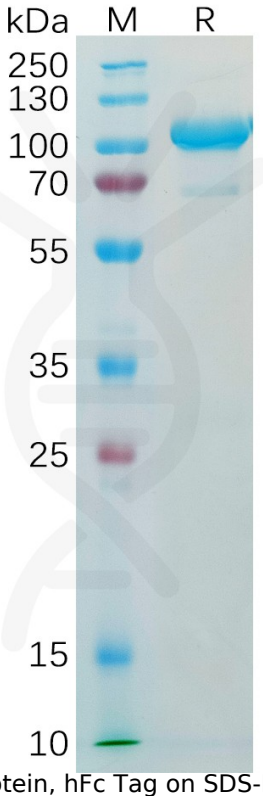


Figure 1. Human AFP Protein, hFc Tag on SDS-PAGE under reducing condition.

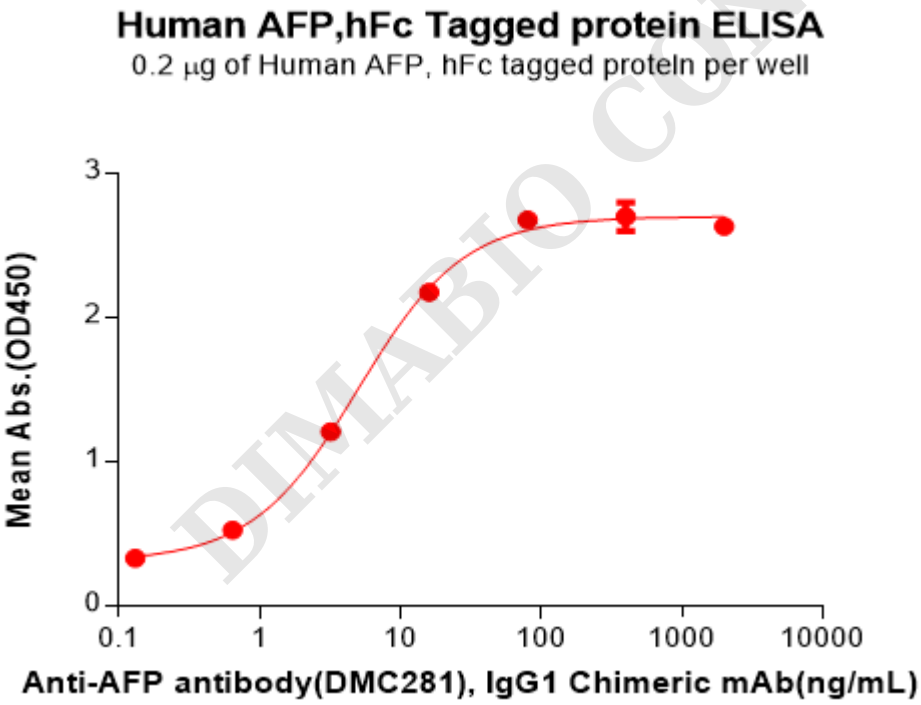


Figure 2. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Human AFP Protein, hFc Tag(PME100075) can bind Anti-AFP antibody(DMC281), IgG1 Chimeric mAb in a linear range of 0.64–16 ng/mL.

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