

Recombinant Human Alpha-fetoprotein/AFP Protein

Catalog No.: RP00243 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	174	P02771

Tags

C-His

Synonyms

AFPD;FETA;HPAFP;AFP

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Contact

 | www.abclonal.com

Background

AFP is Alpha-fetoprotein classified as a member of the albuminoid gene superfamily consisting of albumin, AFP, vitamin D (Gc) protein, and alpha-albumin. AFP is a glycoprotein of 591 amino acids and a carbohydrate moiety. AFP is one of the several embryo-specific proteins and is a dominant serum protein as early in human embryonic life as one month, when albumin and transferrin are present in relatively small amounts. It is first synthesized in the human by the yolk sac and liver (1-2 months) and subsequently predominantly in the liver. A small amount of AFP is produced by the GI tract of the human conceptus. It has been proved that AFP may reappear in the serum in elevated amounts in adult life in association with normal restorative processes and with malignant growth. Alpha-fetoprotein (AFP) is a specific marker for hepatocellular carcinoma (HCC), teratoblastomas, and neural tube defect (NTD).

Basic Information

Description

Recombinant Human Alpha-fetoprotein/AFP Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Arg19-Val609) of human Alpha-fetoprotein (Accession #NP_001125.1) fused with a 6xHis tag at the C-terminus.

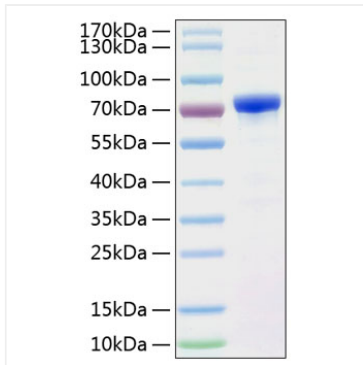
Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human AFP at 2 μg/mL (100 μL/well) can bind AFP Mouse mAb with a linear range of 0.061-5.431 ng/mL.

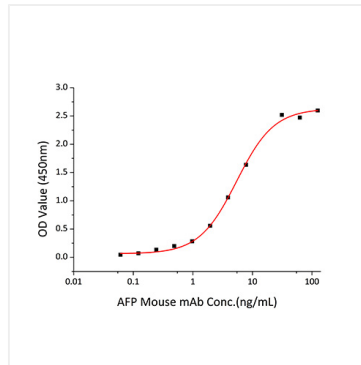
Storage

Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Alpha-fetoprotein/AFP Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 70-75 kDa.



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