

Datasheet for ABIN7519667

alpha Fetoprotein Protein (His tag)



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Overview

Quantity:	100 µg
Target:	alpha Fetoprotein (AFP)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This alpha Fetoprotein protein is labelled with His tag.

Product Details

Purpose:	Active Recombinant Human Alpha-fetoprotein/AFP Protein
Sequence:	RTLHRNEYGI ASILDSYQCT AEISLADLAT IFFAQFVQEA TYKEVSKMVK DALTAIEKPT GDEQSSGCLE NQLPAFLEEL CHEKEILEKY GHSDCCSQSE EGRHNCFLAH KKPTPASIP FQVPEPVTSC EAYEEDRETF MNKFIYEIAR RHPFLYAPTI LLWAARYDKI IPSCCKAENA VECFQTKAAT VTKELESSL LNQHACAVMK NFGTRTFQAI TVTKLSQKFT KVNFTIEIKL VLDVAHVHEH CCRGDVLDCL QDGEKIMSYI CSQQDTLSNK ITECCKLTTL ERGQCIIHAE NDEKPEGLSP NLNRFLGDRD FNQFSSGEKN IFLASFVHEY SRRHPQLAVS VILRVAKGYQ ELLEKCFQTE NPLECQDKGE EELQKYIQES QALAKRSCGL FQKLGEYYLQ NAFLVAYTKK APQLTSSELM AITRKMAATA ATCCQLSEDK LLACGEGAAD IIIGHLCIRH EMTVPVNPVG QCCTSSYANR RPCFSSLVVD ETYVPPAFSD DKFIFHKDLC QAQGVALLTM KQEFLLNLVK QKPQITEEQL EAVIADFSLG LEKCCQGQEQ EVCFAEEGQK LISKTRAALG V
Specificity:	Arg19-Val609
Purity:	> 95 % by SDS-PAGE.

Product Details

Sterility:	0.22 µm filtered
Endotoxin Level:	< 0.1 EU/µg of the protein by LAL method.
Biological Activity Comment:	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.

Target Details

Target:	alpha Fetoprotein (AFP)
Alternative Name:	Alpha-fetoprotein/AFP (AFP Products)
Background:	<p>Description: 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).</p> <p>Name: AFPD,FETA,HPAFP,AFP</p>
Gene ID:	174
UniProt:	P02771
Pathways:	C21-Steroid Hormone Metabolic Process

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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 %

Handling

	Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Storage:	-20 °C,-80 °C
Storage Comment:	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.