

Datasheet

AFP monoclonal antibody (M01), clone 1G7

Catalog Number: H00000174-M01

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a partial recombinant AFP.

Clone Name: 1G7

Immunogen: AFP (AAH27881, 500 a.a. ~ 609 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:

CCTSSYANRRPCFSSLVVDETYVPPAFSDDKFIFHKDL
CQAQGVALQTMKQEFLINLVKQKPKITEEQLEAVIADF
SGLLEKCCQGQEQEVCFAEEGQKLIKTRAALGV

Host: Mouse

Reactivity: Human

Applications: ELISA, IF, IP, S-ELISA, WB-Ce, WB-Re, WB-Tr

(See our web site product page for detailed applications information)

Protocols: See our web site at

<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Isotype: IgG2a Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 174

Gene Symbol: AFP

Gene Alias: FETA, HPAFP

Gene Summary: 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 hepatoma or teratoma. 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. [provided by RefSeq]

References:

1. A single-step enzyme immunoassay capillary sensor composed of functional multilayer coatings for diagnosis marker proteins. Funano SI, Sugahara M, Henares TG, Sueyoshi K, Endo T, Hisamoto H. *Analyst*. 2015 Jan 19.
2. Immunodevice for simultaneous detection of two relevant tumor markers based on separation of different microparticles by dielectrophoresis. Ramon-Azcon J, Yasukawa T, Mizutani F. *Biosens Bioelectron*. 2011 Aug 4. [Epub ahead of print]