

bsm-1622M**[Primary Antibody]****BioSS**
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AFP(A4) Mouse mAb**— DATASHEET —**

Host: Mouse Clonality: Monoclonal Target: AFP(A4) Immunogen: AFP protein: full length. Purification: affinity purified by Protein A Concentration: 1mg/ml Storage: Size : 50ul/100ul/200ul 0.01M PBS (pH7.4) with 0.02% Proclin300. Size : 200ug (PBS only) 0.01M PBS Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles. Background: Alpha 1 Fetoprotein is 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. Expression has been documented in human adrenal, liver, ovary, testis, and pancreas. ESTs have been isolated from normal human brain, liver/spleen, embryo and uterus tissue libraries.	Isotype: IgG CloneNo.: A4	Applications: ELISA (1:5000-10000) Reactivity: Human Predicted MW.: 65 kDa Subcellular Location: Secreted
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— SELECTED CITATIONS —

- **[IF=6.641]** Zhao J et al. A SERS-based immunoassay for the detection of α -fetoprotein using AuNS@ Ag@ SiO₂ core-shell nanostars. Journal of Materials Chemistry C. 2019. Other ;. doi:10.1039/c9tc01890e
- **[IF=5.83]** Zong, Chen, et al. "Chemiluminescence imaging immunoassay of multiple tumor markers for cancer screening." Analytical Chemistry 84.5 (2012): 2410-2415. Other ;="Human". 22320247
- **[IF=6.45]** Lin, Dajie, et al. "Cascade signal amplification for electrochemical immunosensing by integrating biobarcode probes, surface-initiated enzymatic polymerization and silver nanoparticle deposition." Biosensors and Bioelectronics (2014). Other ;="". 25460899
- **[IF=5.88]** Zhang, Xin, et al. "Spectrum-Based Electrochemiluminescent Immunoassay with Ternary CdZnSe Nanocrystals as Labels." Analytical Chemistry (2016). Other ;="". 27266486
- **[IF=6.277]** Zhao CR et al. Highly sensitive and selective electrochemical immunosensors by substrate-enhanced electroless deposition of metal nanoparticles onto three-dimensional Graphene@Ni foams. Science Bulletin.2019. Other ;. doi:10.1016/j.scib.2019.07.015