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AFP Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant AFP.
Catalog # AT1066a

Specification

AFP Antibody (monoclonal) (M01) - Product Information

Application	**IF, IP, WB, E**
Primary Accession	P02771
Other Accession	BC027881
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG**
Calculated MW	**68678**

AFP Antibody (monoclonal) (M01) - Additional Information

Gene ID 174

Other Names
Alpha-fetoprotein, Alpha-1-fetoprotein, Alpha-fetoglobulin, AFP, HPAFP

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

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

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

Precautions
AFP Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

AFP Antibody (monoclonal) (M01) - Protocols

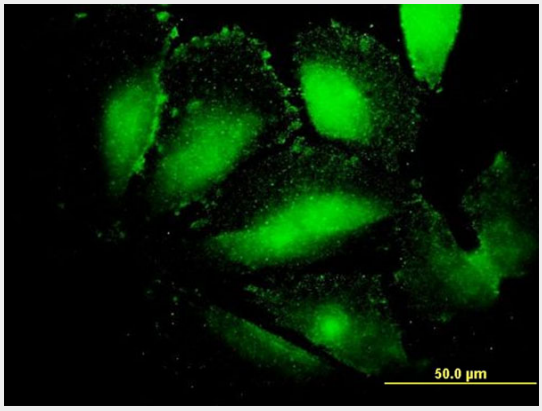
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

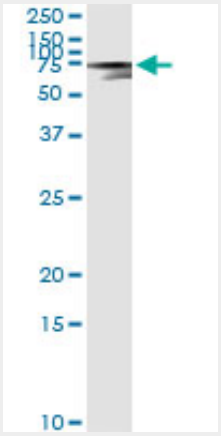
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- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

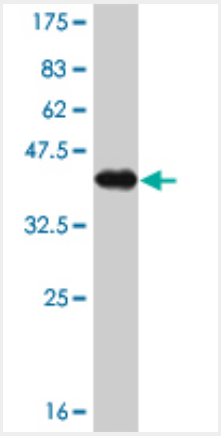
AFP Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to AFP on HepG2 cell. [antibody concentration 30 ug/ml]

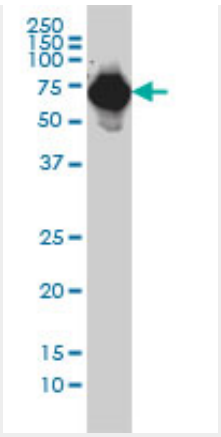


Immunoprecipitation of AFP transfected lysate using anti-AFP monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with AFP MaxPab rabbit polyclonal antibody.

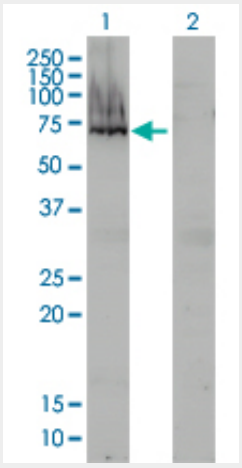


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .

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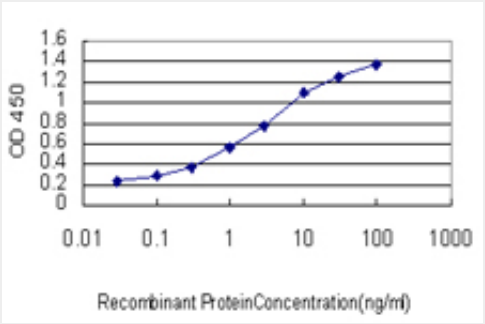


AFP monoclonal antibody (M01), clone 1G7 Western Blot analysis of AFP expression in HepG2 ((Cat # AT1066a)



Western Blot analysis of AFP expression in transfected 293T cell line by AFP monoclonal antibody (M01), clone 1G7.

Lane 1: AFP transfected lysate(69 KDa).
Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged AFP is approximately 0.03ng/ml as a capture antibody.

AFP Antibody (monoclonal) (M01) - 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 hepatoma or teratoma. 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.

AFP Antibody (monoclonal) (M01) - References

1.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]