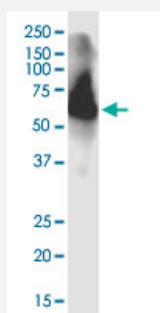**CX Grade**

AFP monoclonal antibody (M01J), clone 1G7

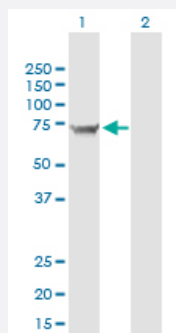Catalog #   H00000174-M01J   Size   100 ug

Applications

Western Blot (Cell lysate)

AFP monoclonal antibody (M01J), clone 1G7. Western Blot analysis of AFP expression in HepG2.

Western Blot (Transfected lysate)

Western Blot analysis of AFP expression in transfected 293T cell line by AFP monoclonal antibody (M01J), clone 1G7.
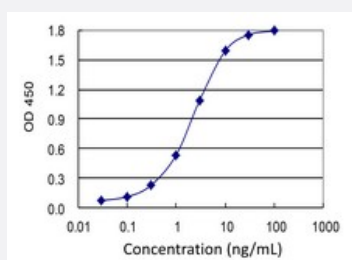
Lane 1: AFP transfected lysate (Predicted MW: 68.7 KDa).
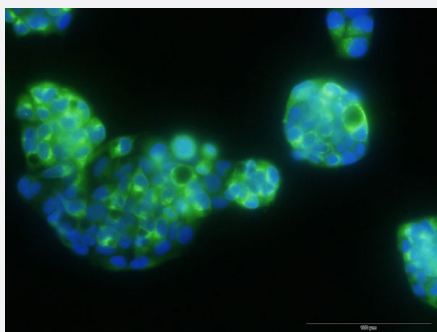Lane 2: Non-transfected lysate.

Immunoprecipitation

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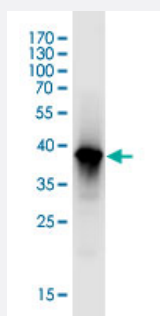

Sandwich ELISA (Recombinant protein)

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

Immunofluorescence

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

Western Blot detection against Immunogen (37.84 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant AFP. This product is belong to Cell Culture Grade Antibody (CX Grade).
Immunogen	AFP (AAH27881.1, 500 a.a. ~ 609 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	CCTSSYANRRPCFSSLVVDETYVPPAFSDDKFIFHKDLCQAQGVALQTMKQEFLINLVKQKPQITE EQLEAVIADFSGLLEKCCQGQEQEVCFAEEGQKLISKTRAALGV
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (79); Rat (78)
Preparation Method	Cell Culture Production
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- **Western Blot (Cell lysate)**

  AFP monoclonal antibody (M01J), clone 1G7. Western Blot analysis of AFP expression in HepG2.

  Protocol Download

- **Western Blot (Transfected lysate)**

  Western Blot analysis of AFP expression in transfected 293T cell line by AFP monoclonal antibody (M01J), clone 1G7.

  Lane 1: AFP transfected lysate (Predicted MW: 68.7 KDa).
  Lane 2: Non-transfected lysate.

  Protocol Download

- **Western Blot (Recombinant protein)**

  Protocol Download

- **Immunoprecipitation**

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

  Protocol Download

- **Sandwich ELISA (Recombinant protein)**

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

  Protocol Download

- **ELISA**

- **Immunofluorescence**

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

Gene Info — AFP

Entrez GeneID	174
GeneBank Accession#	BC027881.1

Protein Accession#	AAH27881.1
Gene Name	AFP
Gene Alias	FETA, HPAFP
Gene Description	alpha-fetoprotein
Omim ID	104150
Gene Ontology	Hyperlink
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 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. [provided by RefSeq
Other Designations	OTTHUMP00000160480|alpha-1-fetoprotein|alpha-fetoglobulin

Disease

- Carcinoma

- Liver Cirrhosis

- Liver Neoplasms